

NASA Films available on EVR Cassettes

For complete list, write to:
National Audiovisual Center (GSA)
Washington, D.C.



Please order EVR Cassettes on the separate order form enclosed, including your Purchase Order or P.O. number. Additional order forms may be had by writing to:
CBS Electronic Video Recording Division, 51 West 52 Street, New York, N.Y. 10019

NASA Black and White EVR Cassettes

No. EVR-300 / \$43.20

DEBRIEF: APOLLO 8 • 28 min.

The story of man's first journey to the moon with comments on the significance of the Apollo 8 flight by several prominent Americans. The film features photography of the lunar surface, the earth as seen from the moon, and the on-board activities of Astronauts Borman, Lovell and Anders.

No. EVR-301 / \$43.20

APOLLO 9: THE SPACE DUET OF SPIDER AND GUMDROP 28½ min.

An introspective view of the Apollo 9 astronauts before, during and after their earth orbital mission. With minimal narration and special music, the film presents a pictorial record of the training, launching, rendezvous and docking of the Command Module (Gumdrop) and the Lunar Module (Spider), and the return and recovery of the crew.

No. EVR-302 / \$43.20

APOLLO 10: GREEN LIGHT FOR A LUNAR LANDING • 28½ min.

Features highlights of the Apollo 10 lunar orbital mission by Astronauts Stafford, Cernan and Young, including descent of the lunar module to within ten miles of the moon's surface, and good views of lunar features and the earth.

No. EVR-303 / \$43.20

EAGLE HAS LANDED: THE FLIGHT OF APOLLO 11 28½ min.

Tells the story of the historic first landing of men on the moon in July, 1969. Depicts highlights of the mission from launch through post-recovery activities of Astronauts Armstrong, Aldrin and Collins, with emphasis on exploration of the lunar surface.

No. EVR-304 / \$43.20

APOLLO 12: PINPOINT FOR SCIENCE • 28 min.

Man's second journey to the moon is for science. The first extravehicular activity includes setting up the ALSEP package for the return of scientific data. The second extravehicular activity includes geological traverse and Surveyor III activities. Astronauts Conrad, Gordon, and Bean splashdown in the Pacific November 24, 1969. Summarizes findings to date and commentaries from scientists.

No. EVR-305 / \$43.20
AMERICA IN SPACE—THE
FIRST DECADE • 28 min.

A 10-year history of NASA's role in the exploration of space. The film presents a highly-pictorial non-technical review of major areas of research and discovery, and emphasizes the contributions of many areas of American life to the success of the first decade of space exploration. It briefly describes major accomplishments in aeronautics, atmospheric research, the use of scientific and applications satellites, studies of the moon and planets, and manned spaceflight.

No. EVR-306 / \$43.20

ASSIGNMENT: SHOOT THE MOON • 28 min.

Summarizes what we have learned about the moon through Ranger, Surveyor and Lunar Orbiter photography, and how this new knowledge contributes to manned flight to the moon. Unique views of craters and other lunar surface features, and of the earth seen from the moon are included.

No. EVR-307 / \$43.20

THE BIOSATELLITE PROGRAM —BETWEEN THE ATOM AND THE STAR • 28 min.

Shows why an orbiting satellite is "weightless" and how biological experiments performed in a weightless laboratory may reveal important information about basic life processes. Many of the experiments that will be made are described, including the nature of gravity sensors in plants and animals, the effects of radiation combined with weightlessness, the effect of weightlessness on reproduction, the cardiovascular system and bone structure and effect of removing the 24-hour day/night cycle.

No. EVR-308 / \$43.20

WITHIN THIS DECADE: AMERICA IN SPACE • 28½ min.

A pictorial review of major accomplishments in NASA research from 1959 through preparations for the first manned lunar landing, with emphasis on manned space flight. This film is a revision of America in Space: The First Decade.

NASA Color EVR Cassettes

No. EVR-309 / \$54.75

THE FIRST INTERNATIONAL SATELLITE • 13 min.

Describes the sun's effect on earth's ionosphere and how this in turn affects radio transmission. International cooperation in space investigation is illustrated.

APOLLO MISSION HIGHLIGHTS 12 min.

A new look at the plans and preparation for the manned lunar landing mission. Through photography and animation, shows the techniques of launching, earth orbit, lunar landing, exploration of the moon, return and recovery of the astronauts. Explains briefly what the astronauts plan to do on the moon, and how scientists will evaluate the lunar rock samples which will be brought back to earth.

No. EVR-310 / \$54.75

APOLLO REENTRY SIMULATION • 11 min.

The reentry phase of an Apollo mission. Simulated reentry using computers, graphs, and cockpit outlay.

U.S. MANNED LUNAR EXPEDITION • 14 min.

This nation's step-by-step approach to reaching its goal in this decade—placing a man on the moon and returning him safely to earth. Points out the gap between Project Mercury and Project Apollo, describes how Gemini is designed to fill this gap and how the Apollo trip to the moon and the return voyage will be made.

No. EVR-311 / \$54.75

FIFTY MOON LANDINGS A DAY 14 min.

Analog computer programs the simulated flights, and the pilot responds to roll, pitch, yaw, attitude change and reentry. Simulates problems in Apollo reentry. Solution illustrates the value of astronaut training. A frictionless air-suspended table takes the place of actual spacecraft in solving simulated problems in flight.

APOLLO/SATURN 202 QUICK LOOK • 11 min.

With the suborbital flight of Apollo/Saturn 202, the spacecraft demonstrates structural integrity, compatibility, and operational capability of onboard systems. The Apollo spacecraft undergoes four Service Module propulsion burns with the restarts, a skip maneuver reentry and recovery by the Carrier U.S.S. Hornet.

NASA Color EVR Cassettes

No. EVR-312 / \$44.40 **THE APOLLO 4 MISSION** **16 min.**

Presents the assembly and launching of the first unmanned SATURN V/APOLLO space vehicle, the world's largest rocket. Shows detail of the stage separations, acceleration to an altitude of 11,232 miles above earth, and the effects of reentry of the unmanned spacecraft at a speed of 25,000 miles per hour.

No. EVR-313 / \$34.20 **BEFORE SATURN • 14 min.**

A short history of the philosophical and fictional dreams of space exploration, from the early Chinese through the Greek period to the development of the Saturn 1 rocket.

No. EVR-314 / \$44.40 **BY-PRODUCTS OF SPACE** **RESEARCH—SELECTED** **EXAMPLES • 16½ min.**

Recent industry applications of aeronautical and space technology and the resulting new or improved products on techniques are demonstrated in this film. Examples illustrated include the use of computers to improve X-ray photographs, application of tire hydroplaning studies to highway safety, new tools for diagnosing muscle disease, contributions to crystal growth technology, space telemetry applications for FM broadcasting, a new type of inorganic paint.

No. EVR-315 / \$34.20 **THE FLIGHT OF APOLLO 7** **14 min.**

A report of the first manned mission in the U.S., Apollo manned lunar landing program. Major events covered are launch, a transposition and docking maneuver, a rendezvous maneuver, television transmissions, reentry and recovery. The film shows the three astronauts living and working aboard the Apollo command module during the 11-day flight.

No. EVR-316 / \$34.20 **THE HARD ONES • 15 min.**

The difficulties and problems encountered in designing, building, and operating unmanned satellites for scientific research and practical applications such as communications and weather forecasting.

No. EVR-317 / \$54.75 **INTERNATIONAL** **COOPERATION IN SPACE** **23 min.**

NASA's program of cooperation with many countries in launching international satellites, carrying of foreign experiments on U.S. spacecraft, sounding rocket research, global tracking networks.

No. EVR-318 / \$34.20 **A MOMENT IN HISTORY** **13½ min.**

The presentation of honorary U.S. Citizenship to Winston Churchill by President Kennedy on April 6, 1963. The live television transmission was sent via satellite from the White House to England.

No. EVR-319 / \$54.75 **ORBITING SOLAR** **OBSERVATORY • 25 min.**

Describes the Orbiting Solar Observatory spacecraft which is designed to gather information concerning the sun's effect on the earth.

No. EVR-320 / \$34.20 **AUTOMOBILE TIRE HYDRO-** **PLANING: WHAT HAPPENS** **12 min.**

Shows how and why automobile tires lose contact with wet pavements and the relationship between speed, tire wear and water depth. The dangers of hydroplaning are emphasized. Produced jointly with the Bureau of Public Roads.

No. EVR-321 / \$54.75 **ELECTRIC PROPULSION** **24 min.**

Shows what electric propulsion is, how it works, why it is needed, its present status and program for development, and how it may be used for both manned and unmanned missions.

No. EVR-322 / \$34.20 **LIVING IN SPACE—PART I—** **THE CASE FOR REGENERATION** **12 min.**

Introduces the concept of regenerative life support. Shows what is needed to provide men with clean fresh air, drinkable water, food, personal hygiene, waste disposal, temperature and humidity control. Indicates the problems involved in converting waste materials into useable products for manned flights of long duration.

No. EVR-323 / \$44.40 **LIVING IN SPACE—PART II—** **REGENERATIVE PROCESSES** **20 min.**

Shows the principles of physics, chemistry and mechanics employed in a regenerative life support system. Includes oxygen recovery, water purification, food and waste management, humidity and temperature control.

No. EVR-324 / \$44.40 **LIVING IN SPACE—PART III—A** **TECHNOLOGY FOR SPACE-** **CRAFT DESIGN • 12 min.**

Shows the features that must be incorporated into a spacecraft intended for long duration manned space flight and the technology that is being developed to solve the numerous problems.

No. EVR-325 / \$54.75 **NUCLEAR PROPULSION IN** **SPACE • 24 min.**

Shows how a nuclear third stage for the Saturn V launch vehicle will gently increase its performance; why the nuclear rocket uses propellant about twice as efficiently as our best chemical rockets; how the nuclear engine will work; the development and testing program of the reactor and engine; and describes how nuclear rocket stages might one day be assembled and used in a manned flight to another planet.

No. EVR-326 / \$34.20 **SEAS OF INFINITY • 14½ min.**

Reviews the planning, development, launching and function of the Orbiting Astronomical Observatory, a series of orbiting telescopes which are being used to study our solar system and the stars beyond. Features comments by leading scientists on the potential of this advancement in astronomy.

NASA Color EVR Cassettes

No. EVR-327 / \$44.40 **CERAMICS IN SPACE** **19½ min.**

Using ceramics as a typical field of scientific study, the film shows how a graduate student develops the academic discipline needed to conduct original research including search of scientific literature; definition of the problem; design, analysis and performance of experiments; collection and evaluation of data. Shows the relationship between student, faculty advisor and other scientific disciplines.

No. EVR-328 / \$44.40 **THE CHALLENGE OF** **UNANSWERED QUESTIONS** **15½ min.**

Presents the principal features of the Aurora—one of the most mysterious and fascinating of natural phenomena. Shows the theories of its cause and the instruments and techniques used in studying it. Shows the life and experiences of a graduate student working under Dr. Sydney Chapman at the Geophysical Institute, University of Alaska.

No. EVR-329 / \$54.75 **GREAT IS THE HOUSE OF THE** **SUN • 21 min.**

Atop Mount Haleakala, the "House of the Sun", Dr. Walter Steiger and his colleagues from the University of Hawaii study the effects of the air-glow phenomena and solar radiation in space, while other scientists prepare experiments to be flown aboard space satellites to study ultra-violet radiation.

No. EVR-330 / \$54.75 **IT'S YOU AGAINST THE** **PROBLEM • 23 min.**

Shows basic research in ablative materials being carried out by Dr. Simon Ostrach, Head, Division of Fluid, Thermal and Aerospace Sciences, Case Institute of Technology (now Case Western Reserve Univ.) and by a graduate student working under Dr. Ostrach's guidance. Emphasizes the challenge of research and the education and life of a scientist.

No. EVR-331 / \$44.40 **THE POETRY OF POLYMERS** **19 min.**

Shows research in polymers being carried out by Dr. Frank d'Alelio, Research Professor of Chemistry, University of Notre Dame. The molecular structure of polymers is explained and the molding of a polymer from basic ingredients is demonstrated. The challenge of inquiring into the basic nature of materials is dramatically presented.

No. EVR-332 / \$34.20 **A MISSION FOR MARINER** **14½ min.**

Illustrates through animation the principal results of the unmanned Mariner spacecraft fly-by of the planet Venus in 1967, including new knowledge of the composition and density of the Venusian atmosphere, surface pressure and temperature, mass and radiation.

No. EVR-333 / \$34.20 **APOLLO DIGEST • 12 min.**

Series of short films on specific aspects of the Apollo Program, ranging from a typical lunar mission profile through astronaut training, the rocket and spacecraft, launch facilities, control, communications, space suit, recovery and lunar receiving laboratory.

No. EVR-334 / \$34.20 **FLIGHT WITHOUT WINGS** **14¼ min.**

Traces the development of the wingless "lifting body" aero-spacecraft and its potential use as a space shuttle to return men back from an earth orbiting space station to a landing on conventional aircraft runways. Includes dramatic onboard photography during test flights.

No. EVR-335 / \$54.75 **RESEARCH IN THE** **ATMOSPHERE • 25 min.**

Traces the methods of man's exploration of the upper atmosphere and near-earth environment from ancient times until the present, with detailed examination of ionized helium in the atmosphere.

No. EVR-336 / \$44.40 **SATELLITE ASTRONOMY:** **PROGRESS AND PROMISE** **17 min.**

Reviews principal results of unmanned satellite exploration of the moon, near planets and the stars during the past decade, and briefly describes proposed studies in the 1970s of the sun and both near and distant planets.

No. EVR-337 / \$54.75 **SPACE NAVIGATION • 21 min.**

Explains the principles of charting a course in space for manned and unmanned spacecraft and navigating between earth and other celestial bodies, with concentration on navigation methods in the Apollo Program.

No. EVR-338 / \$54.75 **MANNED SPACECRAFT** **CENTER PROGRESS REPORT** **24 min.**

Highlights the two historical space-faring voyages of Apollo 7 and 8. Emphasizes crew training and final spacecraft testing to the successful completion of each mission.

No. EVR-339 / \$54.75 **A YEAR OF FULFILLMENT** **23 min.**

Summarizes events and progress in the manned space flight program between the late 1950s and early 1969. Stresses the benefits derived from the program and considers the potential benefits of future programs. Future programs may include manned space stations, a low-cost space transport system, and continued lunar exploration.

No. EVR-340 / \$44.40 **EARTH RESOURCES—** **MISSION 73 • 20 min.**

The need for better understanding our earth resources is illustrated by the use of airborne remote sensing equipment. These data are collected by air and ground instrumentation. The analysis and evaluation of these data is of great value but shows the urgency of the problem.

No. EVR-341 / \$54.75 **APOLLO 10—TO SORT OUT** **THE UNKNOWN • 25 min.**

Astronauts Stafford, Young, and Cernan solve the few remaining problems prior to a lunar landing. Lunar Module, Snoopy, descends to within 50,000 feet of the moon. Includes photography of the moon from high and low orbits.

NASA Color EVR Cassettes

No. EVR-342 / \$44.40
MANNED SPACE FLIGHT
QUARTERLY REPORT No. 25
18 min.

Summarizes the Apollo 10 mission and preflight preparation for Apollo 11—a journey to the moon. Apollo Applications Program continues to move into the hardware manufacture and test phase with the orbital workshop, airlock, and Apollo telescope mount.

No. EVR-343 / \$44.40
SCIENCE AND TECHNOLOGY
ADVISORY COMMITTEE—
THE FUTURE IN FOCUS
20 min.

Depicts the story of the STAC group from its inception by James Webb in 1964 to its climactic meeting in Sept., 1969. Stresses contributions made by this group to Manned Space Flight Program in the various scientific areas.

No. EVR-344 / \$44.40
DESIGNS FOR SPACE • 18 min.

Lunar landing and return voyage to earth. Mission and concept designers evaluate the environs of space before material designs reach the drawing board. Animation illustrates the requirements with ensuing problems and ultimate solutions for man's voyage to the moon.

No. EVR-345 / \$34.20
APOLLO BP-12 HIGH 'Q' ABORT
TEST A-001 • 15 min.

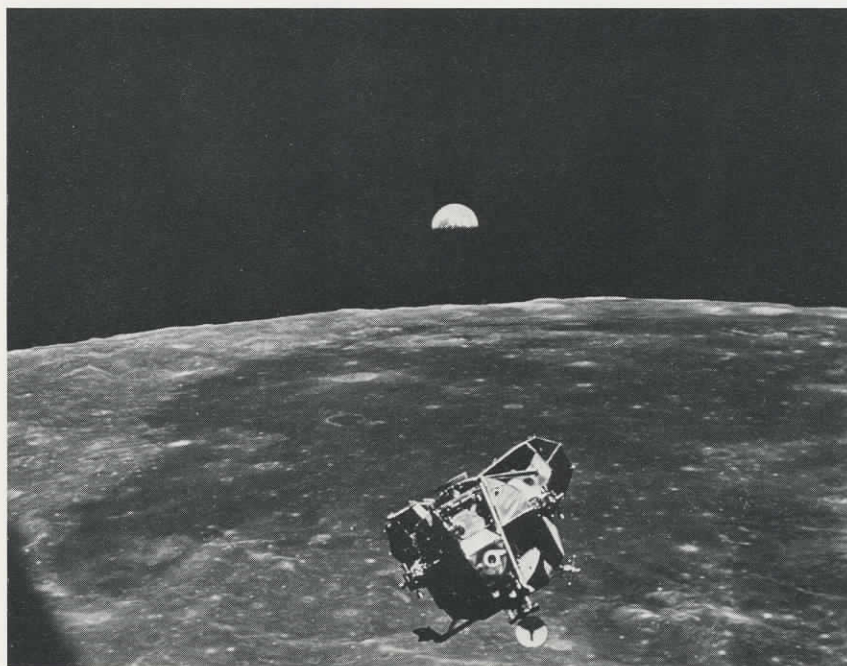
Command Module's feasibility to withstand high dynamic pressure in the transonic speed range. Prepares for the Apollo High 'Q' Abort Test at White Sands Missile Range on May 13, 1964, the Little Joe II launches BP-12. Twenty-eight seconds later cameras record the destruction of the launch vehicle and propulsion of the command module away from the launch vehicle, severing one parachute and deploying the other two.

No. EVR-346 / \$54.75
MANNED SPACECRAFT
TECHNOLOGY • 21 min.

The hardware development and the reliability of the Gemini and the Apollo spacecraft. Various test facilities add insurance to the reliability of the spacecraft. Illustrates the major differences in the Mercury, Gemini and Apollo spacecraft. Explains the Apollo propulsion system, crew system, biomedical and instrumentation equipment and landing system. Preflight checkouts of Apollo and Gemini spacecraft.

No. EVR-349 / \$44.40
APOLLO LUNAR MISSION—
UPDATE • 17 min.

Layman terms give the basic lunar mission parameters, utilizing live coverage of the 500F, VAB, Launch Complex 39, the Apollo 4 launch and track, and launch control rooms. Animated sequences explain the flight profile of parking orbit, translunar orbit, Lunar Module descent, Lunar Module ascent, and rendezvous with Command and Service Modules, and the return to earth, including reentry corridor and parachute deployment and landing.



No. EVR-347 / \$44.40
MANNED SPACE FLIGHT
APOLLO/SATURN—THE USE
FOR SCIENCE AND
APPLICATIONS • 20 min.

Moon mission profiles with man making observations in earth oriented sciences. Hardware is displayed for the Saturn Launch Vehicle, the Apollo spacecraft and the possible scientific equipment in the exploration of the moon. Studies are conducted on the Apollo/Saturn system for scientific work in earth orbit, in lunar orbit and on the moon.

No. EVR-350 / \$34.20
APOLLO 4 MISSION • 15 min.

The launch of the mighty Apollo/Saturn V unmanned space vehicle, which reached an altitude of 11,232 miles. As Apollo 4 climbed toward this peak altitude, a camera, pointed out the spacecraft window, recorded views of the earth. The service module propelled the command module into reentry velocity of approximately 25,000 miles per hour. The successful mission was completed some 8½ hours after launch.

No. EVR-348 / \$44.40
LAUNCH WINDOWS FOR
LUNAR LANDING • 20 min.

Planning a lunar mission with trajectories and physical capabilities which define these trajectories and emphasizes the launch windows and earth reentry.

NASA Color EVR Cassettes

No. EVR-351 / \$44.40

APOLLO 5 MISSION • 17 min.

The successful test of the lunar module, the spacecraft in which man will make his first landing on the moon. Lunar Module One is boosted into space by the tested and proven Saturn 1B launch vehicle. Tracking stations around the world track its position with pin-point accuracy as the Mission Control engineers test the many systems on board. Lunar Module One was not designed to return to earth. It tumbles on through space until destroyed by the atmosphere of an earth on which it was created.

No. EVR-352 / \$34.20

THE FLIGHT OF APOLLO 7 15 min.

Apollo 7 is America's first manned space flight in the U.S. Apollo lunar landing program. Astronauts Schirra, Cunningham, and Eisele spent eleven days in earth orbit verifying the Apollo spacecraft. Life and work aboard the spacecraft were recorded on film. A television first from space highlights the film.

No. EVR-353 / \$54.75

APOLLO 8—GO FOR TLI 22 min.

Apollo 8—a voyage to the moon—is more amazing in fact than anticipation. Featured are air/ground tapes of astronauts' description of the mission and onboard footage of the earth, moon, and IVA activities.

No. EVR-354 / \$34.20

A SECURITY PROFILE • 14 min.

The responsibility of Manned Spacecraft Center to safeguard classified information. Access to classified material is a dual requirement, security clearance and a need to know. The security manual "Safeguarding Classified Information," outlines policies and procedures which relate to the security program at Manned Spacecraft Center.

No. EVR-355 / \$34.20

GEMINI: THE TWINS • 14 min.

Engineers and astronauts work together to solve the difficulties with the Gemini spacecraft and pressure suits. Astronauts train in the Translation and Docking Simulator, the Gemini Part-Task-Trainer and the Gemini Mission Simulator. Highlights the flights of GT-3 and Gemini IV.

No. EVR-356 / \$44.40

LAND LANDING OPERATIONS 17 min.

The test of the parawing/terminal landing system and the progress made in developing a ground control capability for advanced landing systems. The theoretical aspects of the program are depicted by animation.

No. EVR-357 / \$54.75

APOLLO 7 INTRAVEHICULAR ACTIVITY • 8 min.

Astronaut Don Eisele evaluates the intravehicular activity during the Apollo 7 mission. Command Module pilot Eisele experienced no difficulty and found some tasks easier to perform while weightless.

APOLLO 9—THREE TO MAKE READY • 17 min.

The flight of Apollo 9 stresses the testing of the Lunar Module, the spacecraft that will land men on the moon. Featured are sequences of launch rendezvous and earth terrain. These photographs of the earth terrain become dividends from space.

No. EVR-358 / \$54.75

MANNED SPACE FLIGHT QUARTERLY REPORT No. 24 15 min.

Discusses the results of the Apollo 9 mission, the current status of significant manned spacecraft programs, and Apollo Applications efforts during the quarter, January through March, 1969. Preparations continue with hardware checkout for the Apollo 10 and 11 missions.

BENEFITS FROM SPACE 10 min.

Major benefits from our space program are the proper management of our environment, the technological development, and increased knowledge. Gives a brief glimpse of the space program for the next decade.

No. EVR-359 / \$54.75

MANNED SPACE FLIGHT QUARTERLY REPORT No. 26 16 min.

Apollo 11 mission results include scientific analysis of lunar samples and experiments. The Apollo 12 and 13 crews continue their training for forthcoming lunar landings. Recommendations are made for future space exploration.

THE LUNAR SAMPLES OF APOLLO 11 • 8 min.

Results of the preliminary investigation of the lunar samples. Includes biological and chemical studies and the distribution of the lunar material to the scientists for further analysis.

No. EVR-360 / \$54.75

APOLLO IN PERSPECTIVE 14 min.

The activities in the Manned Space Program for 1967. Design changes and innovations resulting from the AS-204 accident and continues with the development of hardware in the Apollo/Saturn Program. Highlights with Apollo 4 Mission (AS-501) including the launch of America's largest rocket, Saturn V, and related activities in the Apollo lunar surface experiments.

STEP INTO SPACE • 11 min.

Representative of astronaut activities in training, engineering modifications and pressure suits. The astronaut trains in the classroom, inflight, Translation and Docking Simulator, Gemini Part-Task-Trainer, survival, contingency egression, geology, weightlessness, navigation and recovery. Then an astronaut trains for a specific mission.

NASA Color EVR Cassettes

No. EVR-361 / \$54.75 GEMINI REENTRY SIMULATION 13 min.

A six degree of freedom engineering study for manually controlled atmospheric entry of the Gemini vehicle. The objective of the study is to evaluate technique of manual control during the atmospheric phase of the Gemini mission. A fixed base simulator containing the hand controller and pilot displays represents the Gemini entry vehicle. An analog computer solves the equation of motion. The manual control system is capable of operating in two modes—Rate Command and Direct. Animation shows the maneuvering capability for various roll profiles.

GEMINI MISSION SIMULATOR 9 min.

A highly diversified and sophisticated mission simulator. The integrated training for astronauts and ground crews may be programmed for live ground station communications or prerecording. Flexibility of the simulator in normal and abnormal conditions under the instructor's guidance. Highlighting this is a mission simulation.

No. EVR-362 / \$54.75 FLIGHT CONTROLLER ORIENTATION—GEMINI-AGENA TARGET VEHICLE • 24 min.

The role Agena played in the Gemini Program, including the techniques employed in rendezvous and docking with the target vehicle. Function and purpose of the six Agena Target Vehicle subsystems are Air Frame, Target Docking Adapter, Electrical, Guidance, Propulsion and Command and Communication.

No. EVR-363 / \$54.75 GEMINI PROGRAM FLIGHT No. 1 • 4 min.

Preflight preparations for the first Gemini mission April, 1964. With the launching of the Gemini spacecraft a milestone is reached in the program.

FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—THE GEMINI MISSION • 8 min.

Launch separation, insertion of a Gemini spacecraft, second stage flight, spacecraft in orbit, rendezvous with Agena, thrusters firing, coupling, Agena propulsion firing, reentry positioning, equipment section jettison, retrograde firing, descent and parachute deployment.

FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—SPACECRAFT STRUCTURE • 9 min.

Major structure components are rendezvous and recovery, reentry control, cabin, retrograde and equipment sections.

No. EVR-364 / \$54.75 FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—ENVIRONMENTAL CONTROL SYSTEM • 9 min.

Outlines the environmental control system in the Gemini spacecraft, showing the normal suit mode, O₂ high rate mode, water management system and the spacecraft cooling system.

FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—GUIDANCE AND NAVIGATION • 8 min.

Components of the Gemini Guidance and Navigation System are inertial guidance, rendezvous radar, time reference systems, onboard L-Bank Radar, inertial measurement unit, digital computer, power supply, an incremental velocity indicator and a manual data insertion unit.

FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—ELECTRICAL POWER SYSTEM • 8 min.

Three power sources for the Gemini spacecraft are the adapter, main and squib batteries and their relationship to the Gemini spacecraft.

No. EVR-365 / \$54.75 FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—PROPULSION AND CONTROL SYSTEM • 11 min.

Governs the orbit attitude maneuver system (OMAS), the reentry control system (RCS), attitude and control maneuver electronics (ACME) and the horizon sensor system.

FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—INSTRUMENTATION AND COMMUNICATIONS SYSTEMS • 12 min.

Four subsystems in the Gemini Instrumentation and Communication Systems are the telemetry, digital command, voice communication and beacon systems.

No. EVR-366 / \$54.75 FLIGHT CONTROLLER ORIENTATION—GEMINI SYSTEMS—SEQUENTIAL SYSTEM • 8 min.

The pyrotechnic system on the Gemini spacecraft in emergency abort modes, separation of major interfaces, seat ejection, jettison of equipment, retrograde and rendezvous and recovery systems.

POST LANDING RECOVERY QUALIFICATION—GEMINI STATIC ARTICLE No. 5 • 15 min.

Static Article No. 5 is tested to evaluate the suitability, stability, seaworthiness and structure of the Gemini spacecraft. With equipment failure on the first test, corrective action is taken to preclude reoccurrence. In the second test, the film shows the electrical, environmental control and communications systems functioning properly.

No. EVR-367 / \$54.75 FLIGHT CONTROLLER ORIENTATION—MANNED SPACE FLIGHT NETWORK 23 min.

The significant functions of the Manned Space Flight Network in their prelaunch checkout, telemetry, communication, displays and data processors. Explains the organizational charts, Central Control Complex Operations, display consoles, Command Communicator Console and Maintenance and Operation at the Mission Control Center, Houston. Focus on the flight control training, network simulations, countdown and spacecraft fly-overs.

NASA Color EVR Cassettes

No. EVR-368 / \$44.40 **MANNED SPACE FLIGHT—** **GEMINI RENDEZVOUS** **MISSIONS • 18 min.**

Rendezvous and docking methods for Gemini and Apollo missions. The six rendezvous concepts in the Gemini Program are Radar Computer Method, the Radar Optical Sight Method, the Optical Sighting Technique, the Direct Ascent Method, the Lunar Module Rendezvous Simulation and the Lunar Module Abort Simulation.

No. EVR-369 / \$44.40 **THE GEMINI II REENTRY** **MISSION • 8 min.**

On January 19, 1965, the Gemini spacecraft lifted off from Pad 19. Onboard cameras record the spacecraft turning around, adapter jettison, reentry control systems thrusters firing, parachute deployment and recovery of the spacecraft.

GT-3 FIRST MANNED GEMINI **MISSION • 12 min.**

The first manned Gemini flight, March 23, 1965, twin astronauts Gus Grissom and John Young are launched into space for a three-orbit mission. Photographs taken aboard the Gemini Spacecraft 3 show Northern Mexico and Southwestern U. S. With the recovery of the astronauts, the Gemini spacecraft proves its value to the Manned Space Flight Program.

No. EVR-370 / \$54.75 **A SIMULATION OF A GEMINI** **SPACECRAFT LAND LANDING** **SYSTEM • 17 min.**

A gliding parachute descent and a terminal landing system. Simulates gliding parachute descent at Ft. Hood, Texas, and continues with analog simulation requirements, map plotting, altitude readouts and TLS commanding roll, pitch and yaw. A simulated Gemini Parasail Reentry run from 180,000 feet to touchdown highlights the film.

GEMINI V RADAR EVALUATION **POD • 4 min.**

Animates the operation of the Radar Evaluation Pod with the spacecraft maneuvers in the R.E.P. experiment.

No. EVR-371 / \$44.40 **EXTRAVEHICULAR ACTIVITY—** **GEMINI IV • 13 min.**

The historic space walk by Astronaut Edward White. Describes preflight preparation of the material used in the Gemini extravehicular suit for the stroll in space. Onboard cameras record the Extravehicular Activity, while Pilot White narrates his adventures in space.

GEMINI VI RENDEZVOUS AND **DOCKING MISSION • 7 min.**

A nominal rendezvous mission in space with an Agena target vehicle. Demonstrates an orbital plane change; first phase maneuvers raising the perigee, circularization of orbit, terminal maneuvers for closure and final braking maneuvers to complete docking.

No. EVR-372 / \$44.40 **PROJECT GEMINI MISSION** **REVIEW 1965 • 20 min.**

Six Gemini missions in 1965. Gemini II verifies spacecraft reentry and Gemini III is the first manned mission by Astronauts Grissom and Young. Highlights the stroll in space by Astronaut White and summarizes the flight of Gemini V. The first dual missions Gemini VII-VIA, include the historic rendezvous and station keeping of two spacecraft in space.

No. EVR-373 / \$54.75 **GEMINI VII • 13 min.**

The historical rendezvous and docking of the Gemini to the Agena spacecraft. While docked, the spacecraft starts excessive yaw and roll motions. Astronaut Armstrong undocks and fires the reentry thrusts thus terminating the mission. Contingency forces in the Pacific recover Astronauts Neil Armstrong and David Scott.

GEMINI X QUICK LOOK • 9 min.

The dual launches, rendezvous and docking with Agena X which propels Gemini to a 414 nautical mile coelliptical orbit. Astronaut Michael Collins performs three extravehicular activities. The U.S.S. Guadalcanal recovers the astronauts.

No. EVR-374 / \$44.40 **THE TWELVE GEMINI • 20 min.**

The long duration flights including the four days of Gemini IV, the eight days of Gemini V and fourteen days of Gemini VII. Includes rendezvous and docking with Gemini VIA and VII, VIII, IXA, X, XIA, and XII. Reentry flight path control objectives are best illustrated with the flights of Gemini III, VIA, VIII, and IXA. Program objectives for extravehicular activity include strolls in space by Astronauts White, Cernan, and Aldrin. Summarizes some of the scientific experiments.

No. EVR-375 / \$54.75 **GEMINI XII MISSION • 25 min.**

The last flight of the Gemini Program sets new records as Astronauts Aldrin and Lovell rendezvous and dock with the Agena target vehicle. Features a rendezvous with a solar eclipse, a stroll in space and a gravity-gradient tether exercise. Ride with the astronauts through reentry and recovery of Gemini XII.

No. EVR-376 / \$54.75 **EDUCATION: SPRINGBOARD** **TO SPACE • 13 min.**

How astronomy, chemistry, physics, mathematics, engineering, medicine, and other academic areas will pioneer the way to creativity and comprehension in conquering the unknown. And how this knowledge is applied to research engineering and technology.

THE MARK OF EXCELLENCE **11 min.**

Compares the oil field fire fighters to that of Astronaut Neil Armstrong. Care is exercised as both men live with danger. A message from Astronaut Armstrong about the Manned Flight Awareness Program highlights the film.

No. EVR-377 / \$34.20 **BUSY DAY AHEAD • 15 min.**

Features Captain James Lovell, the President's Advisor on Physical Fitness, the astronauts' training program compared to that of the average American. Its purpose is to encourage the average American to think more about a regular program of exercise and fitness and to motivate him toward starting this program.

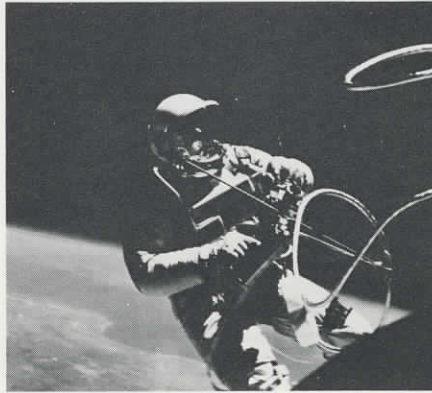
NASA Films EVR Cassette Order Form

To order individual cassettes, check the box alongside its number and fill in the requested information at right (please print or type).

Be sure to attach your purchase order (or include the purchase order number) with all orders. Mail this form and your purchase order to:

CBS ELECTRONIC VIDEO RECORDING DIVISION

51 West 52 Street
New York, New York 10019



Name _____

Title _____

School _____

Address _____

City _____

State _____ Zip _____

Purchase Order No. _____

NO.	TITLE	PRICE	NO.	TITLE	PRICE	NO.	TITLE	PRICE
<input type="checkbox"/> EVR-300	Debrief: Apollo 8	\$43.20	<input type="checkbox"/> EVR-331	The Poetry of Polymers	\$44.40	<input type="checkbox"/> EVR-361	Gemini Reentry Simulation	\$54.75
<input type="checkbox"/> EVR-301	Apollo 9: The Space Duet of Spider and Gumdrop	\$43.20	<input type="checkbox"/> EVR-332	A Mission for Mariner	\$34.20	<input type="checkbox"/> EVR-362	Gemini Mission Simulator	\$54.75
<input type="checkbox"/> EVR-302	Apollo 10: Green Light for a Lunar Landing	\$43.20	<input type="checkbox"/> EVR-333	Apollo Digest	\$34.20	<input type="checkbox"/> EVR-363	Flight Controller Orientation—Gemini-Agena Target Vehicle	\$54.75
<input type="checkbox"/> EVR-303	Eagle Has Landed: The Flight of Apollo 11	\$43.20	<input type="checkbox"/> EVR-334	Flight Without Wings	\$34.20	<input type="checkbox"/> EVR-363	Gemini Program Flight No. 1 Flight Controller Orientation—Gemini Systems—The Gemini Mission	\$54.75
<input type="checkbox"/> EVR-304	Apollo 12: Pinpoint for Science	\$43.20	<input type="checkbox"/> EVR-335	Research in the Atmosphere	\$54.75	<input type="checkbox"/> EVR-364	Flight Controller Orientation—Gemini Systems—Spacecraft Structure	\$54.75
<input type="checkbox"/> EVR-305	America in Space—The First Decade	\$43.20	<input type="checkbox"/> EVR-336	Satellite Astronomy: Progress and Promise	\$44.40	<input type="checkbox"/> EVR-364	Flight Controller Orientation—Gemini Systems—Environmental Control System	\$54.75
<input type="checkbox"/> EVR-306	Assignment: Shoot the Moon	\$43.20	<input type="checkbox"/> EVR-337	Space Navigation	\$54.75	<input type="checkbox"/> EVR-365	Flight Controller Orientation—Gemini Systems—Propulsion and Control System	\$54.75
<input type="checkbox"/> EVR-307	The Biosatellite Program—Between the Atom and the Star	\$43.20	<input type="checkbox"/> EVR-338	Manned Spacecraft Center Progress Report	\$54.75	<input type="checkbox"/> EVR-365	Flight Controller Orientation—Gemini Systems—Guidance and Navigation	\$54.75
<input type="checkbox"/> EVR-308	Within This Decade: America in Space	\$43.20	<input type="checkbox"/> EVR-339	A Year of Fulfillment	\$54.75	<input type="checkbox"/> EVR-366	Flight Controller Orientation—Gemini Systems—Electrical Power System	\$54.75
<input type="checkbox"/> EVR-309	The First International Satellite	\$54.75	<input type="checkbox"/> EVR-340	Earth Resources—Mission 73	\$44.40	<input type="checkbox"/> EVR-366	Flight Controller Orientation—Gemini Systems—Sequential System	\$54.75
<input type="checkbox"/> EVR-310	Apollo Reentry Simulation	\$54.75	<input type="checkbox"/> EVR-341	Apollo 10—To Sort Out The Unknowns	\$54.75	<input type="checkbox"/> EVR-366	Post Landing Recovery Qualification—Gemini Static Article No. 5	\$54.75
<input type="checkbox"/> EVR-311	Fifty Moon Landings a Day	\$54.75	<input type="checkbox"/> EVR-342	Manned Space Flight Quarterly Report No. 25	\$44.40	<input type="checkbox"/> EVR-367	Flight Controller Orientation—Manned Space Flight Network	\$54.75
<input type="checkbox"/> EVR-312	The Apollo 4 Mission	\$44.40	<input type="checkbox"/> EVR-343	Science and Technology Advisory Committee—The Future in Focus	\$44.40	<input type="checkbox"/> EVR-368	Manned Space Flight—Gemini Rendezvous Missions	\$44.40
<input type="checkbox"/> EVR-313	Before Saturn	\$34.20	<input type="checkbox"/> EVR-344	Designs for Space	\$44.40	<input type="checkbox"/> EVR-369	The Gemini II Reentry Mission	\$44.40
<input type="checkbox"/> EVR-314	By-Products of Space Research—Selected Examples	\$44.40	<input type="checkbox"/> EVR-345	Apollo BP-12 High 'Q' Abort Test A-001	\$34.20	<input type="checkbox"/> EVR-370	GT-3 First Manned Gemini Mission	\$54.75
<input type="checkbox"/> EVR-315	The Flight of Apollo 7	\$34.20	<input type="checkbox"/> EVR-346	Manned Spacecraft Technology	\$54.75	<input type="checkbox"/> EVR-370	A Simulation of a Gemini Spacecraft Land Landing System	\$54.75
<input type="checkbox"/> EVR-316	The Hard Ones	\$34.20	<input type="checkbox"/> EVR-347	Manned Space Flight Apollo/Saturn—The Use for Science and Applications	\$44.40	<input type="checkbox"/> EVR-371	Gemini V Radar Evaluation Pod	\$44.40
<input type="checkbox"/> EVR-317	International Cooperation in Space	\$54.75	<input type="checkbox"/> EVR-348	Launch Windows for Lunar Landing	\$44.40	<input type="checkbox"/> EVR-371	Extravehicular Activity—Gemini IV	\$44.40
<input type="checkbox"/> EVR-318	A Moment in History	\$34.20	<input type="checkbox"/> EVR-349	Apollo Lunar Mission—Update	\$44.40	<input type="checkbox"/> EVR-372	Gemini VI Rendezvous and Docking Mission	\$44.40
<input type="checkbox"/> EVR-319	Orbiting Solar Observatory	\$54.75	<input type="checkbox"/> EVR-350	Apollo 4 Mission	\$34.20	<input type="checkbox"/> EVR-372	Project Gemini Mission Review 1965	\$44.40
<input type="checkbox"/> EVR-320	Automobile Tire Hydroplaning: What Happens	\$34.20	<input type="checkbox"/> EVR-351	Apollo 5 Mission	\$44.40	<input type="checkbox"/> EVR-373	Gemini VII	\$54.75
<input type="checkbox"/> EVR-321	Electric Propulsion	\$54.75	<input type="checkbox"/> EVR-352	The Flight of Apollo 7	\$34.20	<input type="checkbox"/> EVR-374	Gemini X Quick Look	\$44.40
<input type="checkbox"/> EVR-322	Living in Space—Part I—The Case for Regeneration	\$34.20	<input type="checkbox"/> EVR-353	Apollo 8—Go For TLI	\$54.75	<input type="checkbox"/> EVR-375	The Twelve Gemini	\$44.40
<input type="checkbox"/> EVR-323	Living in Space—Part II—Regenerative Processes	\$44.40	<input type="checkbox"/> EVR-354	A Security Profile	\$34.20	<input type="checkbox"/> EVR-376	Gemini XII Mission	\$54.75
<input type="checkbox"/> EVR-324	Living in Space—Part III—A Technology for Spacecraft Design	\$44.40	<input type="checkbox"/> EVR-355	Gemini: The Twins	\$34.20	<input type="checkbox"/> EVR-376	Education: Springboard To Space	\$54.75
<input type="checkbox"/> EVR-325	Nuclear Propulsion in Space	\$54.75	<input type="checkbox"/> EVR-356	Land Landing Operations	\$44.40	<input type="checkbox"/> EVR-377	The Mark of Excellence	\$34.20
<input type="checkbox"/> EVR-326	Seas of Infinity	\$34.20	<input type="checkbox"/> EVR-357	Apollo 7 Intravehicular Activity	\$54.75			
<input type="checkbox"/> EVR-327	Ceramics in Space	\$44.40	<input type="checkbox"/> EVR-358	Apollo 9—Three To Make Ready	\$54.75			
<input type="checkbox"/> EVR-328	The Challenge of Unanswered Questions	\$44.40	<input type="checkbox"/> EVR-359	Manned Space Flight Quarterly Report No. 24	\$54.75			
<input type="checkbox"/> EVR-329	Great is the House of the Sun	\$54.75	<input type="checkbox"/> EVR-360	Manned Space Flight Quarterly Report No. 26	\$54.75			
<input type="checkbox"/> EVR-330	It's You Against the Problem	\$54.75		The Lunar Samples of Apollo 11	\$54.75			
				Apollo in Perspective	\$54.75			
				Step Into Space	\$54.75			