

MallinCam Cameras and Accessories

MallinCam Astronomical Video Camera

The MallinCam HYPER PLUS is available in B&W and Color versions. It is also available in NTSC (USA, Canada, Mexico, and Japan) and PAL (rest of the world). The HYPER PLUS camera has four long exposure modes – 7, 14, 28 and 56 seconds.



B&W HYPER PLUS
Color HYPER PLUS

\$1099.95
\$1199.95

Cameras are assembled based on the waiting list I provid to Rock Mallin. To get on the list, contact me at jackhuerkamp@gmail.com

MallinCam Video Finderscope

The MallinCam Video Finderscope is available in B&W only. It uses a smaller 1/3" CCD sensor than the MallinCam HYPER PLUS camera, it is limited to a maximum of a 2.1 second exposure and it has no Peltier cooler. Included with the camera is the 5mm to 50mm f/1.4 Zoom Lens, a 25' Power/Video Cable, Black Anodized Mounting Bracket, a 110 VAC to 12 VDC Power Supply and a plastic tool box to store the Video Finderscope in. The Video Finderscope is currently only available in NTSC format.



B&W Video Finderscope \$529.95

Video Finderscopes are assembled based on the waiting list I provide to Rock Mallin. To get on the list, contact me at jackhuerkamp@gmail.com

Accessories

5mm to 50mm Zoom Lens

This is the same lens provided with the MallinCam Video Finderscope. It is f/1.4, and it has three adjustments- Zoom from 5mm to 50mm, Iris, and Focus.



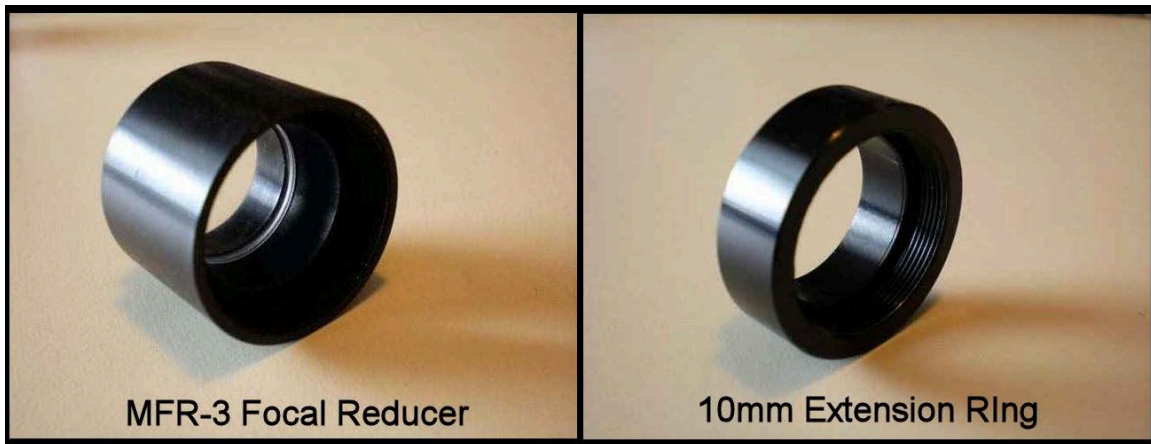
5mm to 50mm Zoom Lens

\$139.95

MFR-3 and 10mm Extension Rings

The MallinCam acts like an 8mm eyepiece with a 50 degree field of view. Thus, it provides a high-power view on the monitor. Using a focal reducer, even on fast optical systems, is beneficial as power is lowered while the field of view seen on the monitor is increased. Rock Mallin produces the MFR-3 Focal Reducer to accomplish this. Below are the relative focal reductions and eyepiece equivalents obtained with the MFR-3 and the 10mm Extension Rings:

- MallinCam and MFR-3 ~0.75 FR (10.5mm Eyepiece w/ 50 Degree FOV)
- MallinCam, MFR-3, 1-10mm ER ~0.65 FR (12.5mm Eyepiece w/50 Degree FOV)
- MallinCam, MFR-3, 2-10mm ER ~0.55 FR (14.5mm Eyepiece w/50 Degree FOV)



For SCT owners, the use of either a Celestron or Meade f/6.3 focal reducer in connection with the MFR-3 and one 10mm ER in the camera will yield a system speed of about f/4, and a diagonal can still be used. If a Meade f/3.3 focal reducer is used, there is insufficient focus travel to use a diagonal – the scope's light cone comes to focus before it exits the diagonal. For GEM SCT users, this is not a problem. However, when using the Meade f/3.3 focal reducer on a fork-mounted scope, it is important to limit slews past about 70 degrees from the horizon to avoid driving the camera into the fork base.

MFR-3

\$139.95

10mm Extension Ring

\$29.95 Each

NOTE: The black anodized barrel for the MFR-3 has C-mount threads on the end for screwing the focal reducer onto the camera. The opposite end has 1.25" threads to facilitate the installation of filters.

Optical Window

The Optical Window contains a flat glass element to help isolate the cooled CCD sensor from moisture in the air. If a focal reducer is used on the MallinCam or in the optical path ahead of the MallinCam, there is no need for the use of an Optical Window, as the glass elements in the focal reducer serve the same function as the window in the Optical Window.



The use of either an Optical Window or a Focal Reducer does not guarantee that moisture in the air will not condense on the CCD sensor. However, it helps to lessen the impact, especially during hot, humid summer nights.

Optical Window

\$99.95

NOTE: The black anodized barrel for the Optical Window has C-mount threads on the end for screwing it onto the camera. The opposite end has 1.25" threads to facilitate the installation of filters.

1.25" Deluxe Adapter

The 1.25" Deluxe Adapter has C-mount threads on the end for screwing it onto the camera. The opposite end has 1.25" threads to facilitate the installation of filters. This adapter allows the MallinCam to be placed into the drawtube of a 1.25" focuser or into a 2" to 1.25" focuser adapter. The same machined aluminum fitting is used for the MFR-3, the Optical Window and the 1.25" Deluxe Adapter.



1.25" Deluxe Adapter

\$59.95

NOTE: A 1.25" Deluxe Adapter is included with every MallinCam system.

Deluxe MallinCam Storage Case

All MallinCam Video Observational Systems are shipped in a small, plastic tool-box style storage case. A molded plastic case with pluck-foam for storing the MallinCam, 1.25" Deluxe Adapter, 25' Power/Video Cable and 120 VAC Power Supply is available in lieu of the "tool box storage case for a nominal charge.



Deluxe MallinCam Storage Case \$34.95

External Heat Dissipater

The External Heat Dissipater is designed to work in conjunction with the internal Peltier cooler. It fits around the raised, round extension on the front of the MallinCam and it is held in place using two small screws. It is easily removal, if needed. By being attached to the front of the camera near the Peltier cooler, it acts like the cooling fins of a radiator to dissipate heat generated by the CCD sensor to the air.



External Heat Dissipater \$39.95

2" Internal Heat Dissipater/Adapter

The 2" Internal Heat Dissipater/Adapter is a machined aluminum adapter that is held to one of the following by a recessed Allen screw:

- 1.25" Deluxe ADAPTER
- Optical Window
- MFR-3 Focal Reducer and/or Extension Rings

It serves two functions. Because of the recesses machined into its front, it allows getting the camera at least 1/4" closer to the top of the focuser's draw tube. This can make the difference for Newtonian telescope owners in being able to achieve focus. It also helps conduct heat from the camera's CCD sensor to the outside air via the focuser.



2" Internal Heat Dissipater/ Adapter \$49.95

S-video Cables

The MallinCam Video Observational System is supplied with a 25' Power/Video Cable and it is used to connect to the camera's BNC Composite Video Output to a monitor. The MallinCam is also equipped with an S-video output. For many, the composite video output quality is acceptable. However, especially for color camera owners, a better quality image can be obtained using an S-video cable. Cables of various lengths are available. Note: These cables do not contain a power cord. Thus either the supplied Power/Video cable must be used in conjunction with the S-video cable or a separate power supply cable fabricated.



25' S-video Cable	\$39.95
50' S-video Cable	\$79.95
100' S-video Cable	\$99.95

Power/Video Cables

The MallinCam Video Observational System is supplied with a 25' Power/Video Cable. For those needing a longer cable, 50' and 100' units are available. In addition, replacement 25' cables are also available.



25' Composite Video/Power Cable	\$49.95
50' Composite Video/Power Cable	\$79.95
100' Composite Video/Power Cable	\$99.95

12 Volt DC Power Cable

For those desiring to power their camera from a 12 volt power source, there is a 12 VDC power cable available. It has a male cigarette plug on one end and an adapter on the opposite end that will plug directly into the MallinCam or into the supplied 25' Power/Video Cable.



12 VDC Power Cable

\$39.95

110 Volt AC Power Supply

This is a regulated 12 VDC power supply similar to the one supplied with the MallinCam Video Observational System.



120 VAC Power Supply

\$39.95

USB 2.0 Video Adapter

The USB 2.0 Adapter allows one to view the MallinCam output on a computer monitor and to grab frames or video files from it. There are currently two adapters available – one that is known to work with Windows 2000 and Windows XP and the second that is VISTA compatible. The adapter for

Windows 2000 and XP has both composite and S-video inputs. The adapter for Windows VISTA adds the ability to record audio.



USB2.0 Adapter (W2K and XP)	\$119.95
WSB2.0 Adapter (VISTA)	\$129.95

90 Degree BNC Connector

For those desiring some additional strain relief for their composite video cable, the 90 degree BNC applies that function.



90 Degree BNC Connector	\$19.95
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