:: ARCG power and Positioner power will turn on when the system powers on.

:: The MCU includes a laser key switch on its front panel that must be turned clockwise to enable the LASER emission. When the interlock becomes active the amber Interlock LED turns on.

:: The Laser ON LED will blink rapidly when the laser is firing. This LED is active whenever the ARGC-2400 mode is active regardless of the power settings of the laser. This LED is not software-controlled.

:: The ARGC COM LED blinks when a communication is established between the ARGC and the MCU.

:: The Positioner COM LED blinks when it is linked to the MCU.

:: Link LED blinks when there is a communication between the MCU and the console.

OBZERV
Ultimate Night Vision Technology

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Master Control Unit (MCU)

Ordering Information
For orders, questions, specific requirements, or to learn more about Obzerv's products, contact us at info@obzerv.com

THE OBZERV MASTER CONTROL UNIT (MCU) is a 3U rack-mount, high-grade device that provides all the power and interconnection for a broad range of instruments in your surveillance system. On the back panel, connect a GPS, cameras, a radar, network cables; with fool-proof mating and industry-standard connectors. The front panel provides on-site troubleshooting, via a series of information LEDs. You can also interrupt the system easily, at any time, with an oversized emergency stop button.

MCU SPECIFICATIONS

ELECTRICAL

Frequency	47 to 63 Hertz
Voltage	100 to 240 VAC
Power	< 350 W (with the camera and without pan & tilt)
	< 1000 W (with the camera and pan & tilt)
MCU fuses	10 A, 250 V (located on the back panel)

ENVIRONMENT

Operating temperature	- 20°C to 50°C
Humidity	5% - 90% relative humidity, non-condensing
Distance from camera	3 m to 70 m
Additional enclosure	If outdoors, the MCU requires a protected enclosure

CABLES AND CONNECTORS

|	
Video input	1 AUX video input BNC connector (NTSC or PAL)
Video output	6 video output BNC connectors
Ethernet	2 10-megabit links using (direct or cross-over) CAT5 RJ45 cables
Interlock	External interface available on back panel

PHYSICAL

Weight	< 9 kg (19.8 lb)
Dimensions (L x W x H)	40 cm x 48 cm x14 cm (15.7 in. x 19 in. x 5.5 in.)
Rack mount	3U with a depth 55 cm (21.7 in.)

OTHER FEATURES

Emergency stop button
Unique activation key
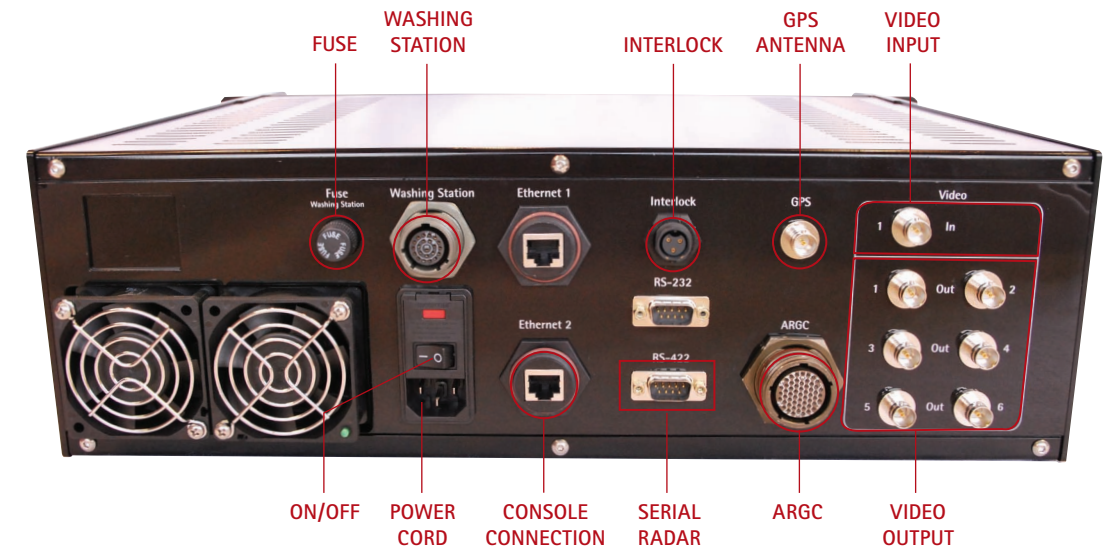Optional washing station interface
Optional pan & tilt control

TOP VIEW
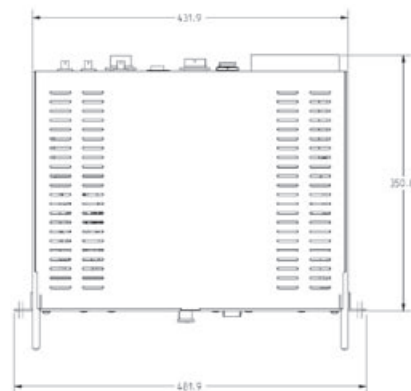
FRONT VIEW

FUSE

10 A, 250 V MCU fuse.

WASHING STATION CONNECTION

Control signals from the MCU to the water pump and from the water level indicator.

CONSOLE CONNECTION

The connection required between the console and the MCU for command and control is an Ethernet connection using a standard (direct or cross-over) CAT5 RJ45 cable.

INTERLOCK CONNECTION

The Interlock is a safety mechanism that completely disables the laser emission when it is activated. The Laser Safety Officer (LSO) may use the Interlock connector to install several interlock mechanisms cascaded in series. The ARGC-2400 is shipped with a 50-ohm terminator installed on the Interlock connector.

SERIAL RADAR CONNECTION

Two serial links are available to connect the MCU to a radar station. The interface must be factory selected. The radar has to be connected to the RS-422 connector. You can slave the ARGC-2400 to the radar through the console software. The radar station will transmit the designated target coordinates to the pan & tilt through the MCU in order to pinpoint the ARGC-2400 at the target designated by the radar station.

GPS ANTENNA CONNECTION

The antenna must be connected and well positioned for the GPS to get a valid satellite signal.

MCU CONNECTION (ARGC) TO THE PAN & TILT/HEAD UNIT

The ARGC-2400 is connected to its pan & tilt or the head unit with a multi-pin proprietary umbilical cable via the connector "ARGC".

VIDEO INPUT

Input any standard video signal from another surveillance camera;

VIDEO OUTPUTS

There are six video outputs named Out1 to Out6:
  :: The Out 1 is the ICCD output;
  :: The Out 2 is the color camera output;
  :: The Out 3 is the ICCD output or the color camera as selected by the console (this output has no overlay and is not stabilized);
  :: The Out 4 and 5 are outputs of the ICCD camera and the color camera as selected by the console. Both images can be stabilized and are showing the overlay;
  :: The Out 6 is the output of the ICCD camera or the color camera (as selected by the console) with the overlay data to feed any type of recorders or monitors.