

ARC360 PTZ and Lite Instruction Manual



Agile Remote Cameras Ltd
Otterbourne Farm, Kiln Lane.
Winchester. Hants. SO21 2EN UK
+44(0) 1962 711211
hello@agileremotecameras.com

Specification

Weight:- 2.4kg

Data:- RS485/IP
Power:- 9-32V @1amp
Dimensions: 225mm x 155mm

Pan Range: 360deg. Continuous
Tilt Range: 120deg
Horizon Range:- +/- 8deg
Speed Range:- <0.1 deg per sec - >180deg/sec

Camera Sensor: Exmor R CMOS
Active pixels:- Approx. 2.13M
S/N Ratio: >50dB

HD Standards:- 1080i/59.94/50/60,30
1080p/59.94/50/60/30/29.97
720p/59.94/50/60/30/29.97

HD Output:- Y/Cb/Cr 4:2:2 via LVDS (8bit)

Zoom Range:- 30 x Optical zoom (63.7deg – 2.3deg)
Zoom Speed:- Standard and High across 7 speeds.
MOD:- 30cm
Iris: F1.6 – 28 (255 steps)
Sensitivity 0.01Lux

Operating Temperature: -20 to +40deg

Connectivity: XLR4- Power and data
RJ45- Data or Power and data
BNC – HD-SDI or 3G-SDI

Options: IP68 Connectivity
SMPTE Interface
SFP Base Options

Preset Programming

The ARC 360 Agile Camera and the ARC mini desk or multi-function control desk can provide exceptionally accurate preset programming. Presets will retain pan, tilt, zoom and focus presets.

Presets are possible in all positions.

Zoom
Iris
Focus
White Balance
Shutter
Gain
Blue Gain
Red Gain
Master Pedestal
Gamma
Infra Red Mode
Mirror Image

Lens operation and options

The ARC 360 Agile camera has a horizontal field of view of 63.7 degrees and with the X30 optical zoom, can be zoomed to approximately 2.3 degrees. The X30 optical zooms is controlled via either the zoom rocker or joystick depending upon the controller being used.

Speed and Direction Setting

The pan and tilt axis have a wide range of speed options and these axis's can be reversed through the desk. The horizon axis has a single speed and cannot be reversed.

The highest speed setting will result in a less smooth end transition. The speed can be adjusted through the rotary encoder on the AR Maxi desk or via the menu on the ARC4 controller.

Video Output Selection

Video output can be changed through the controller menu. Select which camera that you would like to change the video format on, select Video Output on the controller menu and select the format using the menu button. Press EXECUTE or Store on the desk. Once the new command has been sent to the camera, the camera MUST be power cycled for the change to take effect.

Preset Set Up

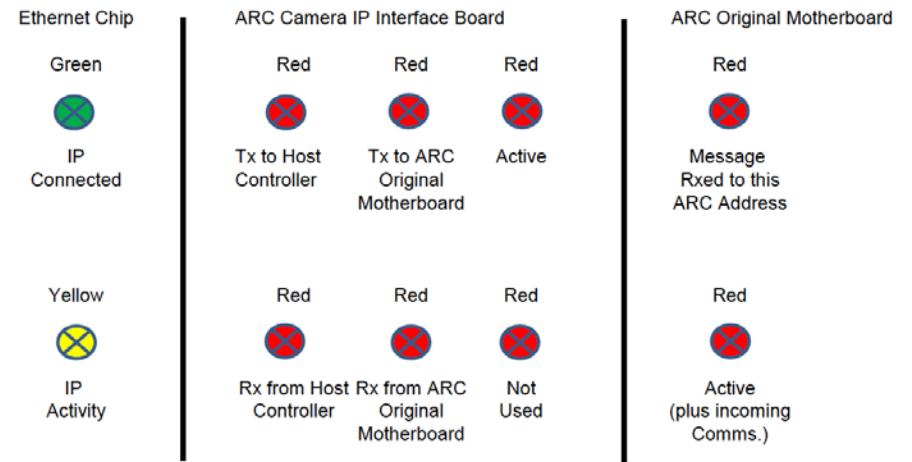
Setting up and recalling preset position through an ARC controller provides the user with a range of parameters to recall. The controller has two options within the menu. One is called Preset Delete and the other is called Preset Store. To deleted an existing preset, select Preset delete and then press the corresponding button (1-8 or 1-4) on the controller to delete that position. To store a preset, select Preset Store in the menu, drive the camera to the required position and press any of the numbered buttons. This will store the position.

NOTE: Presets will not recall if the menu still has the Preset Store menu open.

Update Camera

When setting up, it is possible to store the gain, shutter and pedestal values. This allows the operator to set all cameras to a standard configuration.

ARC 360 Diagnostic LED Information



Status LED's

The cameras are fitted with 10 LED's.

Green LED: Indicates that there is an IP connection. This light will not operate if the camera is operating in RS485.

Yellow LED: Indicates IP activity across the network.

There are 6 Red LED's in the center of the panel, these are used to provide diagnostic information. This information can be supplied on request.

There are two Red LED's on the right-hand side that can provide addition configuration information.

Top Red LED: Indicates that a message has been received to this cameras address.

Bottom Red LED: Shows incoming data from the net

Power and data connections.

RS 485 and power via XLR 4

XLR 4	RS 485 Description
1	Ground

2	RS 485 +
3	RS 485 -
4	9-24V 1.5A

RS 485 and power via Ethernet

RJ 45 Plug	EIA/TIA 568B	RS 485 Description
1	Orange/White	RS 485 +
2	Orange	RS 485 -
3	Green White	Not Connected
4	Blue	DC +
5	Blue /White	DC +
6	Green	Not Connected
7	Brown/White	DC Ground
8	Brown	DC Ground

RJ45 – XLR4 Pin-out

RJ45 Plug	EIA/TIA 568B	RS485 Description	XLR 4 Male
1	Orange/White	RS485 +	2
2	Orange	RS485 -	3
3	Green/White	Not Connected	Not Connected
4	Blue	DC +	4
5	Blue/White	DC +	4
6	Green	Not Connected	Not Connected
7	Brown/White	DC Ground	1
8	Brown	DC Ground	1

IP/POE via Ethernet

RJ 45 Plug	EIA/TIA 568B	Description
1	Orange/White	Transmit + (Tx +)
2	Orange	Transmit – (Tx-)
3	Green White	Receive + (Rx +)
4	Blue	DC +
5	Blue /White	DC +
6	Green	Receive – (Rx -)
7	Brown/White	DC Ground
8	Brown	DC Ground

Web Interface.

The ARC360 IP/POE range of cameras have a web interface that can be accessed through any web browser. The default address is 192.168.100.1 unless specified on the camera. The username and password is:-

Username: admin
Password: pw



Rigging

The ARC 360 Agile camera is supplied with a quick release locking mount. The mount has standard ¼” and 3/8 mounting threads as well as a standard mounting point for rigging clamps.

The camera is then locked in to position using the locking arm on the camera mount.

The pan and tilt motors operate in a closed loop enabling the camera to operate easily in any orientation.

The camera can be supplied with a safety stop for rigging at heights, with a dedicating safety stop if required.