



MINI-ARRAY Controller Specifications

Power requirements:	16 to 30V dc @ 1.25 amps max. (see current requirements for sensors); controller, alone, (without sensors connected) requires 0.1 amp.
Inputs:	MINI-ARRAY sensor input (5 connections); emitter and receiver wire in parallel to five terminals. GATE input is optically-isolated, requires 10 to 30V dc (7.5K input impedance) for gate signal.
Response Time:	Outputs are inactive for 5 seconds after system power up. Maximum response time for the discrete outputs are two scan cycles. A scan cycle includes a sensor scan plus any serial data transmission. Serial transmission (if activated) follows every sensor scan.
Discrete Outputs:	<p>Output 1 (OUT 1) - Reed relay contact rated 125V ac/dc max., 10 VA max. resistive load (non-inductive).</p> <p>Output 2 (ALARM) - Open collector NPN transistor rated 30V dc max., 150 mA max, short-circuit protected; may be configured as a second data analysis output, a system alarm output, or a scan trigger output for a secondary device (e.g. camera, MINI-ARRAY etc.).</p> <p>OFF-STATE Leakage Current: < 10µA @ 30V dc ON-STATE Saturation Voltage: < 1V @ 10mA <1.5V @ 150mA</p>
Serial Data Outputs:	RS-232, RS-485, ASCII or binary data format, Baud rate: 9600, 19.2K, or 38.4K, 8 data bits, 1 start bit, 1 stop bit, even parity, Clear data may be suppressed, Header string may be suppressed in binary format, Up to 15 controllers may be given unique addresses for RS485 party line.
Controller programming:	Via RS232 to PC-compatible computer running Windows® 3.1 or 95 or OS/2® operating system and using supplied Banner software (see user manual).
Status Indicators:	The following status LEDs are located on the top surface of the module: OUT 1 (red) - Indicates that Output 1 is energized, ALARM (red) - Indicates that Output 2 is energized, GATE (red) - Indicates voltage is applied to GATE input, ALIGN (green) - Indicates sensors aligned (excess gain > 1x), DIAG 1 (green) - Indicates power is applied to the module, DIAG 2 (red) - Indicates receiver failure, DIAG 3 (red) - Indicates emitter failure.
Enclosure:	<i>Size:</i> see Figure, page 5 <i>Material:</i> Polycarbonate <i>Rating:</i> NEMA 12 (IP 52)
Operating Temperature:	-20 to +70°C (-4 to 158°F); 95% relative humidity (non-condensing).

Cables (2 required per system)

Model	Length
QDC-515C	4.6 m (15 ft) cable, straight QD connector
QDC-525C	7.6 m (25 ft) cable, straight QD connector
QDC-550C	15.2 m (50 ft) cable, straight QD connector