

Conway Omega Receiver

The Omega telemetry receiver is one of a range of telemetry receivers manufactured by Conway. Telemetry control can be obtained through the RS485 medium or via Conway's up the coax method. A small module for each method plugs onto the main receiver PCB, configuring the receiver accordingly.

The Omega receiver is suitable for both Colour and Monochrome CCTV systems where DC Pan & Tilt heads are required.

Pan & Tilts The output drives are provided from robust H Bridge output circuits suitable for driving 24V dc heads with Conway's special PWM* output, enabling full control at speeds less than 0.1 degree per second. Ideal for large high performance zoom lens. When zoomed right in on a subject, full accurate control without overshooting is maintained.

Lenses Both 4 wire and 3 wire lenses can be driven from the variable output lens drive circuit. Lens speed is adjusted from the control keypad.

Pre-sets and Tours Omega receivers come with the capability to store 80 pre-sets which can be used to create 40 tours. Dwell times at each pause in the tour can be individually programmed. A tour can comprise up to 30 pre-sets. Omega receivers come with the capability to give each pre-set position a text caption of 20 characters (default is position 1 etc), a Zone can be represented by a 20 character caption (default is Zone 1 etc) and Time and Date can be displayed on the screen.

Soft stop The receiver micro is programmed to bring the Pan & Tilt head and Zoom lens to a gentle stop at each pre-set position. The motor speed is ramped up at the start of the journey to this pre-set, then ramped down to a creep speed just prior to reaching the position, bringing the motor to a soft end to its journey. This feature will reduce the wear encountered by such motors and gearbox components, especially in the ever more popular use of tours on CCTV installations.

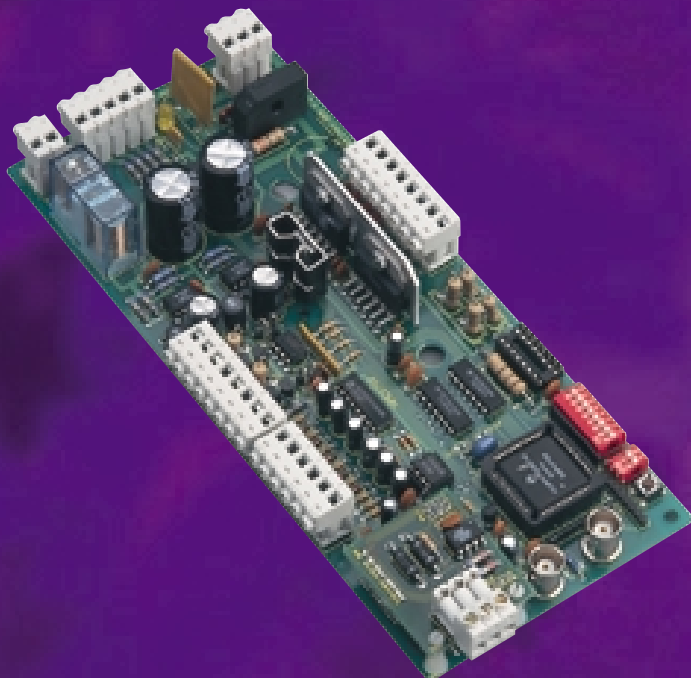
Privacy zones The receiver can be programmed from the control panel to blank out the video signal from the camera automatically between 2 independent pre-set positions on the pan axis. 2 such zones are available per receiver.

Continuous rotation The receiver has inputs provided for use with sine/cosine or sawtooth output Potentiometers, enabling the use of continuous rotation heads.

Relay outputs The Wipe relay output can be configured to be either momentary or latching in its operation. A separate relay PCB can be controlled by the receiver if Lamps, Wash and Auxiliary outputs are required. They can be configured for latching or momentary in operation.

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*Pulse Width Modulated



<i>Compact design</i>
<i>Simple to install</i>
<i>PCB format</i>
<i>Suitable for mounting in Conway range of housings</i>
<i>RS485 or Coaxial communications</i>
<i>Pan & tilt</i>
<i>Zoom & focus</i>
<i>Wash</i>
<i>Wipe</i>
<i>Lamps</i>
<i>Auxiliary functions</i>
<i>Pre-sets</i>
<i>Tours</i>
<i>Pan zones</i>
<i>Privacy zones</i>
<i>Alarms</i>
<i>Text captions</i>
<i>Camera identification</i>
<i>Time & date</i>
<i>Continuous rotation input</i>
<i>Plug-in options</i>
<i>Plug-in terminals</i>
<i>24V dc pan & tilt heads</i>
<i>Brake outputs</i>
<i>Compatible with all Conway Telemetry products</i>
<i>BNC connector for camera and cable</i>
<i>Weatherproof boxes available</i>
<i>Soft stop on pan, tilt, zoom and focus functions</i>
<i>All functions available on both RS485 and 'up the coax'</i>



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D11-1 issue 1 – 11/03/99

Page 1 of 2

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Technical Specifications

Video Input

BNC connector

Video Output

BNC connector

Communications

RS485 or Coaxial
(using RF Matrix)

Zoom and Focus lens drive

Variable speed to suit 6V
and 12V lens, 4 wire or 3 wire
configuration

Pan & Tilt Drives

Full H Bridge PWM* Drive
outputs. The output enables
accurate control of DC heads
at very slow speeds from 0.1
degrees per second up to 200
degrees per second

Auxiliary relays

1 Relay is provided on the
receiver for operating the
wiper, rated at 240V ac 1 Amp

Pre-set positions

The receiver can store up to
80 pre-sets

Tours

The receiver can store up to
40 Tours each consisting of
30 pre-sets

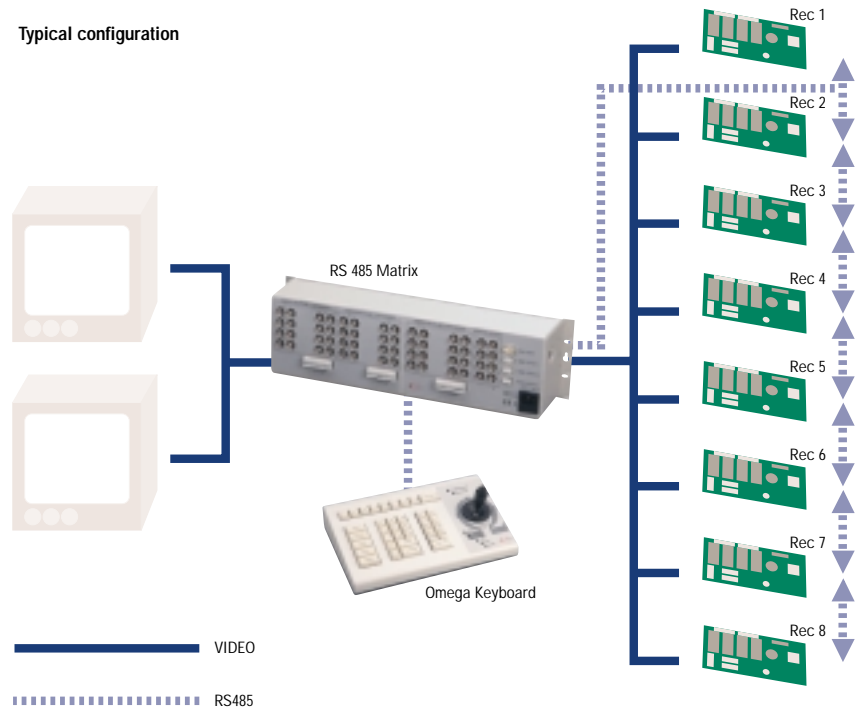
Alarm response

The receiver can respond to
commands generated by the
system in response to alarms,
i.e. Go to a pre-set or begin
a tour

Tamper input

Alarm input on the receiver

Typical configuration



Pre-set inputs

Feedback from lens and pan &
tilt head Potentiometers

Non volatile memory

All receivers have non-volatile
memory for storage of Pre-set
positions, Pre-set text, Dwell
times, Tours, Zone text and
Alarm response conditions

Text

Each receiver has full text
facility allowing captions to
be attached to all Pre-set
positions, Pan Zones and
Camera identification

Privacy zones

Each receiver can be
programmed to blank out the
video between 2 independent
pre-set points on the pan axis.
2 zones are available

Continuous rotation

The Omega receiver is
compatible with Continuous
Rotation Pan & Tilt heads

Weight

PCB only 200g

Size PCB

90x215x30

Power supply

18V ac (Conway part txdel18V)

Power consumption

Approx. 70Va max

Operating temperature

-10C to +45C

Dimensions are all millimetres.



Due to a policy of continual improvement, specifications may be subject to change.