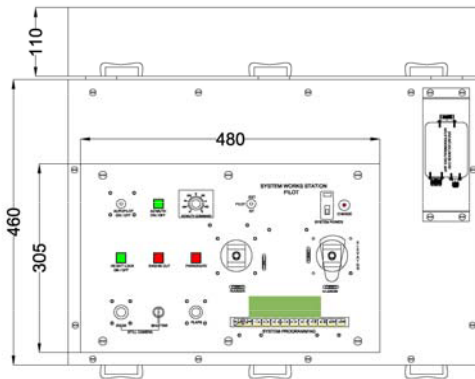
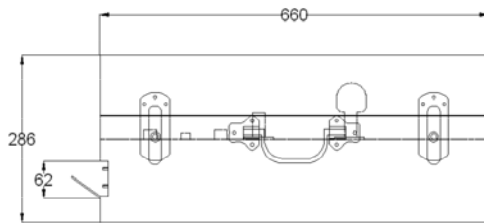


P.T.C.S. Portable Tele- Command System

- 16-Channel operation.
- UHF and multi-frequency support.
- User-friendly programming and setup.
- 9 'Fast' and 7 'Slow' Channels.
- Active interface to High



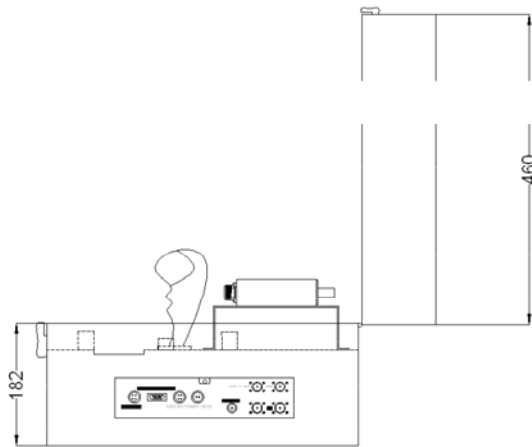
The P.T.C.S. transmitter is INTEGRATED DYNAMICS field-proven solution to external piloting requirements without the problems normally associated with competing systems. It forms a companion transmitter to our IRGX and is set up to operate at 30 Watts output in the UHF band through an omni IsoPole antenna.

The P.T.C.S. can be configured to operate in standard RC-type bands (27-72 MHz) or in the UHF range from 450-460 MHz. DSS (Digital Spread Spectrum) options are coming soon. It is designed to be rack-portable or internally mounted and can be designed for mounting in a Land Rover or pick-up type mobile platform.

The P.T.C.S. is supplied as a ruggedised as a 16 channel Tx working through a choice of High Power amplifier/antenna combinations to provide up to 120 watts power for long range control of UAV platforms.

HPA's (High Power Amplifiers) can be supplied in both VHF and UHF frequencies with matching high gain IsoPole or Yagi periodic antennas. Channel extension up to 36 channels can be supported through software changes in the Motorola 68HC11 series microcontroller board integral to the P.T.C.S. unit.

Call us for details on custom configurations.



Specifications	
RF CHARACTERISTICS	
Frequency range	450-460 MHz (Specify Frequency)
Frequency Stability	-0.0025%
Minimum Output Power	30 Watts .
VSWR	< 1.5:1
Spectral Purity	Spurious rejection better than 55dbW
RC Channels	16 Standard and up to 36
MODULATION CHARACTERISTICS	
Type	True FM
Frequency Response	10 Hz to 10 MHz
Input Impedance	50 Ohms
Frequency Deviation	+/- 4 MHz
Deviation Sensitivity	+/- 4 MHz / V.P.P +/- 10%
Linearity	Differential Gain < 2% Phase < 2%
Incidental Frequency Modulation	<10 KHz RMS
POWER REQUIREMENTS	
Input Voltage	12 VDC reverse polarity protection
Input Current	5.0 Amps (including HPA)
Isolation	Power / Modulation returns grounded to case
ENVIRONMENTAL CHARACTERISTICS	
Temperature	-40° to +80°C
Vibration	20 g peak - 3 Axes
Acceleration	80 g - 3 Axes
Shock	100 g – half sine 11 ms - 3 Axes
Relative Humidity	95%
Low Pressure	1/1000000 mBar
Electromagnetic Compatibility	MIL-STD 461A-462-463
MECHANICAL CHARACTERISTICS	
Dimensions	Refer to drawing
Weight	4500 gm +/- 50 gms
Pin Connections	Refer to drawing
Connectors	Refer to drawing