

# Reporter

## Wireless Camera Back Transmitter

### Applications

- News or Sports Coverage
- Hand Held Portable Use
- Wireless Studio Applications

### Features

- Camera Mounts for
  - Anton Bauer Gold Mount or
  - V-Mount
- 1.99 to 2.7 GHz
- Lightweight, Rugged Design (2.75 lbs/1.02 Kg)
- Low Power Consumption (18 Watts)
- Low Delay Mode at 80 ms
- Colinear Antenna in 2 or 4.5 dBi models
- Integrated MPEG 4:2:2/4:2:0 with DVB-T COFDM
- Accepts NTSC/PAL, Component Video, or SDI
- 2 Audio Channels with Selectable Audio Input: (Analog, AES/EBU, SDI)
- COFDM Bandwidth Selectable (6,7, and 8 MHz)
- Easy Access Controls
- Stores Multiple Preset Configurations
- MRC MPEG/COFDM Receiver Compatibility:
  - CodeRunner 4 Central Receiver
  - STRATA Portable Receiver
  - QuikVue Handheld Receiver
  - RXL Digital Receiver



*REPORTER Camera Mounted Transmitter using an integrated V-Mount design*

### Overview

The REPORTER sets a new standard as a wireless camera transmitter providing full broadcast quality features in a compact rugged unit. REPORTER is designed for a camera person to broadcast live video to a central receiver site over distances not exceeding 1000 meters.

REPORTER features integrated MPEG II encoding (4:2:2/4:2:0) with COFDM modulation, a field proven technology allowing you to get your signal out in difficult areas, while eliminating undesirable multi-pathing.

Depending on your camera source, REPORTER provides selectable audio inputs for either standard Analog (2 channels), AES/EBU Digital Bit Stream, or De-Embedded SDI. For video, REPORTER accepts NTSC/PAL, Component, or SDI.

The REPORTER is available in three basic DC powering configurations, stand-alone and with two different battery mounting style attachments. The battery mount attachments available are the Anton-Bauer "Gold" mount and the V-Mount, typically used with batteries such as IDX models. The battery mount attachments are an integral part of the REPORTER, and therefore must be ordered as such.

Antennas can be cable connected or direct mounted. For direct mount, MRC's Colinear Antenna is offered in 2 or 4.5 dBi models.



*REPORTER Side Mounted Controls*

**1.9 – 2.5 GHz**  
**2.3 – 2.7 GHz**

**SPECIFICATIONS**

**REPORTER**

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Frequency band: ..... 1.99 – 2.5 GHz / 2.3 GHz – 2.7 GHz  
 Frequency tuning step size: ..... 250 KHz (US), 100KHz (International)  
 Dual Conversion ..... IF Frequency 70MHz/900 MHz  
 Power Output: ..... +24 dbm (250mW) – digital QPSK, 16QAM, 64QAM  
 RF Stability: ..... +/-2.5 ppm  
 Power Consumption: ..... 18 Watts  
 Horizontal Resolution ..... 720 x 480 Lines  
 MPEG II Profiles: ..... 4:2:2@ml, 4:2:0@ml  
 COFDM Selectable Bandwidths: ..... 6,7, 8 MHz (2K DVB-T Compliant)  
 Selectable Video Inputs: ..... NTSC/PAL/SMPTE 259C  
 Component Analog (Y/Pb/Pr)  
 Selectable Coding Modes: .....Normal Delay 250 msec(MPEG II Compliant)  
 Priority Low Delay 100 msec (Receiver Dependent)  
 Configurable Audio Input ..... 2 Channel Analog  
 or AES/EBU Digital Bit Stream, Selectable De-Embedded SDI  
 Audio Coding: ..... MPEG II - Layer II  
 Audio Sampling: ..... 192 Kbits/channel, Fs=48 KHz  
 2K DVB-T Implementation  
 Optional: .....BISS Encryption

**PROGRAMMABLE PRESETS**

Quantity of Presets: ..... 9 Stored Conditions  
 Preset Parameters (Using Pro-Man Software through RS-232 Port):  
 Audio Input Source, Video Input Source, Chroma Profile, Channel Frequency,  
 Delay Mode, Modulation (QPSK, 16QAM, 64QAM), COFDM Mode,  
 Forward Error Correction (FEC), Guard Interval (GI), COFDM Bandwidth

**CONTROLS**

TX On/Off /Standby Switch: ..... 3 Position Rotary Dial  
 Preset Select Switch: ..... 9 Position Rotary Dial

**PHYSICAL**

Dimensions: ..... 6.87" (h) x 3.8" (w) x 2.3" (d)  
 174.5mm (h) x 96.5mm(w) X 5.52mm (d)  
 Environmental: ..... -10° C to +50° C (operational)  
 -20° C to +70° C (storage), -20° C to +50° C (start up)  
 Weight: ..... 2.75 lbs/1.24 Kg

**POWER REQUIREMENTS**

DC Input Voltage: ..... 10.5 to 18 Vdc (Battery Voltage)

**INDICATORS**

TX LED Indicators: ..... ON/OFF, Tx/Standby, Summary Fault

**CONFIGURATOR SOFTWARE**

(Programmable Preset Management Software)  
 Required Hardware: ..... IBM PC Compatible with RS-232 Serial Port  
 Operating System: ..... Windows 95 Operating System or Higher  
 Graphic Interface ..... Visual Basic

**CONNECTORS**

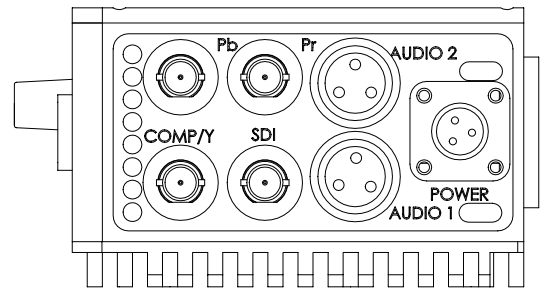
DC Input Connector: ..... 3 pin Circular Flanged Mount (male)  
 Video Input Connector: ..... Miniature BNC (Trompeter)  
 Composite, SDI, or Component (Composite/Y, Pb, Pr)  
 Audio Input Connectors (Quantity 2): ..... 3 Pin Mini XLR (female)  
 RF Output Connector: ..... Type N Female (50 ohms)  
 Pro-Man Program Manager Connector: ..... 9 pin "D" Connector  
 RS-232 protocol or equivalent

**ANTENNAS**

Colinear Antenna (Vertical Polarization) .....2/4.5 dbi  
 Cabled Connection ..... N Type Connector

**ACCESSORIES & MOUNTS**

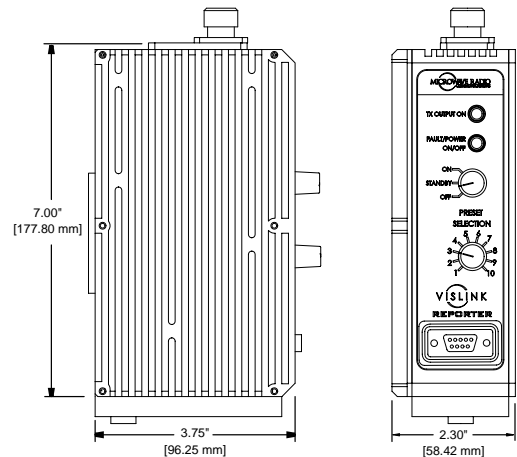
Transmitter Mounting Bracket: .....Anton Bauer QRC – Universal Gold Mount  
 V-Mount



*Bottom View of REPORTER  
 Audio, Video, and Power Connections*



*REPORTER with V-Mount & Battery*



*REPORTER Mechanical Dimensions*



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