

UNITY 552

ENTERPRISE MEDIA RECEIVER



U552 BENEFITS

Support Live Video Broadcasts

**40-70% Signal Compression
with MPEG-4 (h.264) video
compression and
DVB-S2 modulation**

**Hands-free downlink operations
with COMPEL Control®**

HD and SD video support

LAUNCH NEW SERVICES

Network operators can achieve 40-70% greater signal compression using MPEG-4(h.264) video compression and DVB-S2 modulation compared with the current video compression and satellite modulation standards. Explore opportunities to transition live video broadcasts from MPEG-2 to MPEG-4(h.264) video compression during pilot programs, edge networks and full network conversions with WEGENER's Unity 552 enterprise media receiver.

COMPEL CONTROL

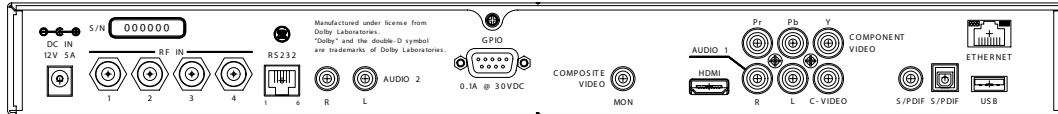
COMPEL® network control system puts every WEGENER receiver and uplink feed under a central network operator's control. It gives the operator the power to manage a mixed network of Unity 552 and other WEGENER IRDs through a common interface. Use COMPEL to optimize bandwidth utilization with scheduled commands that regionalize programming and commercials. Command individual or groups of receivers to configure video, audio, data outputs, or switch/tune to specific satellite transponders for field-proven disaster recovery and true hands-free downlink operations.

OPTIMIZING MEDIA DISTRIBUTION



WEGENER®

UNITY 552 - ENTERPRISE MEDIA RECEIVER



TECHNICAL SPECIFICATIONS

RF CHARACTERISTICS

Input Frequency Range	950 to 2150 MHz
Input Level Range	-25 to -65 dBm
Input Connector	Type-F
	4 port RF switch (optional)
LNB Power	18 VDC@350 mA
Universal LNB Power	13/18 VDC@350 mA max.
	22kHz, Control Tone
Symbol Rate Range	
DVB-S QPSK	1-45 Msps
DVB-S2 QPSK	2-30 Msps
DVB-S2 8PSK	2-30 Msps
FEC Coding	
DVB-S QPSK	1/2, 2/3, 3/4, 5/6, 7/8
DVB-S2 QPSK	1/2, 2/3, 3/4, 4/5, 5/6, 7/8, 9/10
DVB-S2 8PSK	2/3, 3/4, 5/6, 8/9, 9/10

VIDEO OUTPUT CHARACTERISTICS

Compression Codec	MPEG-1, MPEG-2, MPEG-4 AVC (h.264)
Color Sampling	4:2:0
Outputs	Composite - NTSC/PAL Component - YPbPr Digital - HDMI
SD Resolution	480i & p
HD Resolution	720p, 1080i
PAL Modes	PAL-B, PAL-G
Level	1.0Vpp +/- 5%
Impedance	75 Ohms
Connectors	Composite – RCA, HD Component – RCA
Output Compatibility	Down scales HD sources to SD output resolution simultaneously

AUDIO OUTPUT CHARACTERISTICS

Compression Codec	MPEG-4 AAC-LC, Dolby Digital, MPEG-1 Layer II
Sample Rates	44.1 & 48 kHz
Analog Type	2 stereo pairs
Analog Connector	RCA
Digital Type	S/PDIF
Digital Connectors	RCA and Optical TosLink

DATA CHARACTERISTICS

Type	Serial asynchronous, RS 232 port (for terminal, printer or aux. data)
Connector	RJ11
Relay	Contact closure via DB9 (2 output)

POWER AND MECHANICAL CHARACTERISTICS

Operating	
Temperature Range	10 ° C to 40 ° C
Relative Humidity (max.)	80% up to to 31 ° C, decreasing linearly to 50% at 40 ° C
Weight	7.5 lbs or 3.4 kg
Dimensions (H x W x D)	1 RU (1.75" x 16.5" x 11.5") (4.4cm x41.9cm x29.2cm)
AC Power Voltage	External 100-240 auto- detect/selected
AC Power Frequency	50 or 60 Hz ± 2%
Power Consumption	30 watts,full LNB DC load

Agency Approvals

FCC Part 15B Class A, UL1950, CSA, CE, CSA, RoHs

www.wegener.com/PRODUCTS/index.php

11350 Technology Circle, Duluth, GA 30097 ph 770.814.4000 f 770.623.0698 info@wegener.com

