



## DESCRIPTION AND FEATURES

The EVA are Vestigial Sideband (VSB) AM analog, video/audio modulators that can be programmed to different international standards. They are made for adjacent channel operation so that every available channel on a cable TV network can be used. They feature double video and audio inputs so that different program sources can be selected automatically or manually (from external control) at e.g. different time slots. In addition to the analog TV sound the EVA-110 also incorporates a high quality NICAM digital stereo encoder giving high quality stereo and surround (if available from program source) audio reception in modern TV sets.

## SETTINGS AND CONTROL

Programming and different settings of the unit is made via an RS-232 connector on the front. Software is included for control via Palm handheld computer or standard PC.

Channel setting and output level control also available on the front panel for direct control. Changed settings activated via Reset control (available at front).

## VIDEO-AUDIO INPUTS

Two video and audio inputs are available. Normal V/A inputs are Video1 and Audio1. Video2 and Audio2 can be activated or disabled via the control input. It can also be set to Automatic which means that when video is available on Video2 the V/A2 inputs are activated. This can, e.g. be used for automatic selection of a started video recorder. The secondary V/A input is only available for mono audio transmitting. These Audio inputs are shared with the stereo R and L inputs. The stereo audio inputs are summed to give the mono audio sound and fed directly to the Nicam stereo encoder.

Video connectors	Type phono, Video1 (primary) yellow, Video2 (secondary) black
Video level	1 Vpp, 75 ohm
Audio connectors	Type phono, Audio 1/L white, Audio 2/R red
Audio level	0.77 Vrms nominal, high impedance

## MODULATION

Standards	Programmable to B/G, I, D/K, H, L, M/N
Modulation video	VSB AM, negative or positive depending on programmed standard
Modulation mono audio	FM or AM depending on programmed standard
Modulation stereo audio	NICAM 728 (EN 300 163) (Only on EVA-110)
Mono subcarrier frequency	4.5 MHz, 5.5 MHz, 6.0 MHz or 6.5 MHz depending on standard
Nicam subcarrier frequency	Two Nicam option available: 5.85 MHz (system B/G, H, K, L) and 6.552 MHz (system I)

## RF OUTPUT

RF output connector	Type F
RF output impedance	75 ohm nominal
RF output frequency	47 - 860 MHz
RF output level	max 105 dBuV, variable 0 - 15dB
Spurious signals suppression	> 60 dB

## OTHERS

Power supply	DC 7.5 V nom. (6 - 9 V),
Power consumption	EVA-100: Typ. < 4 W, EVA-110: Typ. < 5.5 W
Dimensions EVA-100:	165x105x20 mm (excluding connectors), panel 35x128 mm (7TE x 3HE)
Dimensions EVA-110:	165x105x35 mm (excluding connectors), panel 50x128 mm (10TE x 3HE)
Weight	EVA-100: approx. 330 g EVA-110: approx. 430 g
Mounting	Direct on wall with separate bracket or in 19-inch rack box
Controller	Palm handcomputer or PC (software included)
Control connector	9P Dsub, male
Front panel controls	Channel setting, RF output level, Reset
Indicator lights	on
Operating temperature	0 to +45°C

(This specification may be subject to change without notice)