Go Local with DRL-20-B

DIGITAL ROUNDABOUT

Collaborated Enterprise

DRL-20-B "Clean Feed" system is built for providing Ad-Free Linear TV channel to the viewers. The complete system is built in 2 parts-

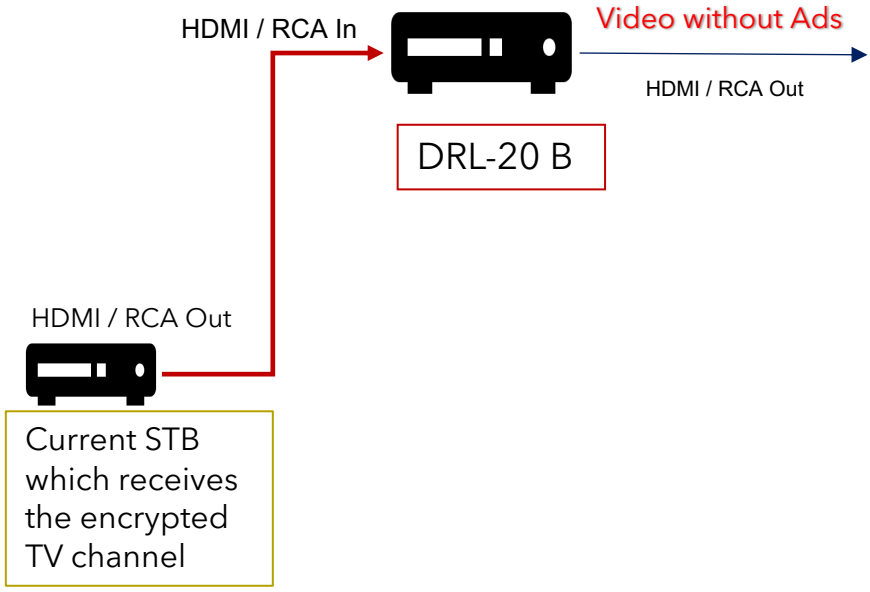
1. *Watermarking at CBC*
2. *Affiliate end E - Box (DRL-20 B)*

When a broadcaster wants to "go local" and service a large number of Head-ends / MSOs; DRL-20-B provides an ideal solution at an affordable cost, without requiring to change the Broadcast Centre workflow. It works on proprietary watermarking technology making it safe and reliable.

The DRL-20-B has been specifically modified for Asian market. RCB / RCVS interface has been added to enable the compatibility with legacy Audio Video equipment.

DRL-20-B converts a regional channel to a local channel by replacing advertisements with the local content and making it a "Clean Feed". This enables the Regional feed to be localised.

DRL-20-B uses Audio Watermarking combined with unique Heartbeat Technology to enable additional capabilities of Advertisement replacement during sports broadcast.



Length	19.6 cm
Width	14.5 cm
Height	4.0 cm
Weight	600 grams

WE MAKE YOUR CHANNEL "Local" WITH *state-of-art* DRL-20-B

Process:

- The broadcaster watermarks the advertisements at the time of preparation of TX copy of the advertisement.

- The advertisement clips are watermarked on a continuous basis. This is done specially to service the Live Sports channels.
  In the live sports channels the central site is triggering the in and out of the break based on the action on the field. Sometimes the Advertisements are cut short manually as the live action returns. When the game resumes the central site triggers the return to live feed; The edge device using the Heartbeat Technology goes back to the live channel.

- The watermark is based on Digital Audio Watermarking Technology, therefore, the quality of audio coming on the input signal is critical. As the quality of signal on IP and HDMI is better, it is recommended that the customer uses IRDs with HDMI / IP output.

- DRL-20-B is uniquely built to support the connectivity legacy RCB / RCVS input and output capabilities.

- For the promo's, the watermark has an additional marking which initiates the process of recording at the edge device.
  When the edge device encounters this watermark, it starts the recording of the content on the DRL-20-B for future playing of the content.
  - The watermark also contains the start and end of the life of the promo.
  - For the 'evergreen' content the life is defined as infinite.

- Disaster Recovery functionality is also performed by the evergreen content stored at the Edge
  If the input goes black for a given period, the evergreen content is played from the EBOX.

CONTACT

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CPU	Rockchip RK3288, ARM Cortex-A17x4, up to 1.8GHz
ROM	Built in 6G, Flash memory optional
RAM	2G DDR3 (Optional 1G)
OS	Linux
GPU	Mali-T764 GPU, Supports AFBC (ARM Frame Buffer Compression)
Optional	CEC, BT
USB	USB 2.0 x 1
HDMI In & Out	HDMI 2.0 for 50/60Hz with HDCP 1.4/2.2
RCVS In & out	Support
SD Slot	Max: 32G
Video Output	HDMI / RCVS
Audio Output	HDMI/SPDIF /RCVS
Support	IR Blast, R232, SPDIF
LAN	RJ45 10/100/1000M Ethernet Interface
WiFi (optional)	Built in IEEE 802.11 B/G/N, upgradeable to dual band 2.4G/5G
Power Adapter	AC100~240V 50/60Hz
DC Input	12.0 V-1.5A