NovoPRO User's Guide

1. Safety Information

Read and understand all instructions before using this product. If damage is caused by failure to follow the instructions, the warranty does not apply.

1.1 FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on.

The user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

-Connect the equipment into and outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cmbetween the radiator & your body.

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. The distance between user and products should be no less than 20cm

1.2 Precautions

Important Safety Instructions

Read these operating instructions carefully before using the unit. Follow all the safety instructions listed below.

Keep these operating instructions handy for future reference.

1.2.1 Read these instructions.

1.2.2 Keep these instructions.

1.2.3 Heed all warnings.

1.2.4 Follow all instructions.

1.2.5 DO NOT use this apparatus near water.

1.2.6 DO NOT clean with any chemical detergent. Clean only with a dry cloth.

1.2.7 DO NOT block any ventilation openings. Install in accordance with the manufacturer's instructions.

1.2.8 DO NOT install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.

1.2.9 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where it exits the apparatus.

1.2.10 Only use attachments/accessories specified by the manufacturer.

1.2.11 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

1.2.12 Unplug this apparatus during lightning storms or when unused for long period of time.

1.2.13 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

1.3 Handling Cautions

1.3.1 DO NOT expose this apparatus to dripping or splashing. Do not put objects filled with liquids, such as vases on the apparatus.

1.3.2 To turn this apparatus off completely, you must pull the power plug out of the wall socket. Consequently, the power plug must be easily and readily accessible at all times.

1.3.3 DO NOT plug multiple electric devices into the same wall socket. Overloading a socket can cause it to overheat, resulting in a fire.

1.3.4 Before connecting other components to this player, be sure to turn them off.

1.3.5 If the product makes an abnormal noise or produces a burning smell or smoke, turn off the power switch immediately and disconnect the power plug from the wall outlet. Then, contact the nearest customer service center for technical assistance. Do not use the product. Using the product as it is may cause a fire or an electric shock.

2. Introduction

2.1 Package Contents

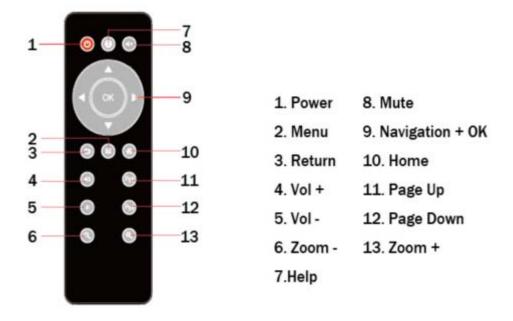
NovoPRO User's Guide HDMI Cable IR Remote Controller (IR RC)

Power Adapter, Input: AC100 ~ 240V, 50/60Hz, Output: 5.35V/2A

2.2 Product Features

- A9, 1.6~2.0GHz, RAM 1G, ROM built in 8G EMMC
- Powered by Android 4.x OS
- Built in 802.11b/g/n WiFi module, wireless Internet access
- 2 USB interface, support mobile HDD, wired/wireless mouse and keyboard operation
- RJ45 10/100M Ethernet interface
- Support 1080P video playback
- HDMI video output, connect to HDTV for HD video playback
- Support weather, calendar, and desktop clock gadgets
- Support 2.4G wireless motion Remote Controller
- Support music player, picture player and more family entertainment
- Support SD card and Google Chrome browser and virtual private network access
- App Installer for application installation from USB/SD card
- High and low temperature of the working environment: -10° C to 40° C and high and low voltage is: 240-100V

2.3Remote Controller



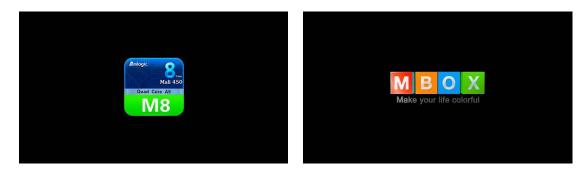
Note: Button Battery 2025 3V insert with correct polarity (+/-).

2.4 Setup Connection

Place NovoPRo on a flat platform near the TV, and make sure nothing block the remote control signal.

2.5 Display when Power Up

2.6.1 After power up, the TV will first show a green robot during loading. When loading is finished, it will go to Home screen.



2.6.2 Home Screen display.



3. Settings

Using Navigation (4 directions), OK, EXIT, and Menu keys of Remote Controller to select the options, the option selected will be highlighted and confirmed by pressing OK key. Same operation for text input if needed.

Select icon then press OK key. Select icon and select More Settings icon to settings interface.

SETTINGS	🔆 Advanced
Model number : MX Enjoy TV BOX Android version : 4.4.2 Build number : V001M801_20140307.20140307 test-keys	System Update More Settings
Kernel version : 3.10.10 tzh@ubt124 630810f-986bec7-dirty(201403	807.134616)

3.1 WiFi

3.1.1 It will automatically scan ambient WiFi networks when select "ON".

3.1.2 Connect an available WiFi network. If connect a secured WiFi network, corresponding password will be input firstly. Or fail to connect and need reset password.

3.1.3 Once build up the connection with a certain WiFi network successfully, NovoPRO will connect this WiFi network automatically when restart.

Note: If factory reset, the password of WiFi network have to be reset.

Wi-Fi	
dlink_1234 Connected	
11111111111 Secured with WPA/WPA2 (WPS available)	କ୍
appleExtreme Secured with WPA2	9
GTL Secured with WPA/WPA2	9
TEST Secured with WPA2 (WPS available)	
CMCC-AUTO Secured with 802.1x	କ୍
test Secured with WPA	

3.2 Bluetooth

3.2.1 It will automatically scan ambient Bluetooth networks when select "ON".

3.2.2 Connect an available Bluetooth network.

3.3.3 Once build up the connection with a certain Bluetooth network successfully, NovoPRO will connect this Bluetooth network automatically when restart.

Settings		
WIRELESS & NETWORKS	Data usage cycle Dec 5, 1969 - Jan 2, 1970 Dec 26, 1969 - Jan 2, 1970: about 0.00B used. No apps used data during this period.	

3.3 Ethernet

Connect Box and Router by RJ45 network cable.

Press "ON" in Ethernet setting, it will connect to network automatically.

C Ethernet		Configure Ethernet device		
	Ethernet co			
	Configure Ethe	Ethernet Devices:		
		eth0		
		Connection Type		
		O DHCP		
		Static IP		
		MAC address		
		IP address		
		Netmask		
		DNS address		
		Gateway address		
		Proxy		
		Discard	Save	

₹ 8:58

3.4 Date usage

Show data usage information.

	WI-FI	ETHERNET
Data usage cycle	Feb 14 – Mar 14	4
Mar 7-14: about 3:		20.10KB
Google	Play services	5.68KB
i com.goo	ogle.tv.discovery	4.29KB

3.5 More...

				€ 8:59
(🔯 Wireless &	networks			
	Portable hotspot			
	VPN			

3.5.1 VPNBuild and set VPN3.5.2 Portable hotspot3.5.2.1 Enable Portable hotspot3.5.2.2 Set up WiFi hotspot

🛜 Tethering or hotspot ac	ctive											
Contraction Portable hotsp	oot											
_	Portable W Portable hotsp	Set up Wi-F	i hotspo	t								
	Set up Wi-F AndroidAP WF	Network SSID AndroidAP										
		Security WPA2 PSK										
		Password										
		The password must have		acters.								
			Cancel				Save					
Q	W	E	R		Y		U	1	C)	Р	
A	S	D	F	(3	H	1	J	К		L	
9	Z	Х	C		/	B	3	N	М			
Chinese	0	?123		•	-			÷		Ne	ext	

Note: WiFi and hotspot connection can not be applied at same time. Disconnect WiFi and connect Ethernet while using hotspot function.

3.6 Sound

3.5.1 Volumes

Increase or decrease sound volumes

3.5.2 Touch Sounds

If enable Touch sound, sound will be heard while move remote controller.

(¢	,	8:59
د 🔯 Sound		
	Volumes	
32 ()	SYSTEM	
	Touch sounds	
	SOUND DEVICES MANAGER	
	Sound Input Devices	
	Sound Output Devices	

3.7 Display

3.6.1 Auto BrightnessAuto set brightness to save power3.6.2 Font sizeChange the font size of OSD

()					9:00
Display					
	Font size				
	Cast screer				
		Font size			
		Small		0	
		Normal		۲	
		Large		0	
		Huge		0	
			Cancel		

3.8 Storage

Shows the storage used of the OS and SD card.

(P		9:00
र कि Storage		:
	INTERNAL STORAGE	
	Total space 4.82GB	
	Available 4.7468	
	Apps (app data & media content) 126MB	
	Pictures, videos 20.00KB	
	Cached data 644KB	
	Міsc. 72.00КВ	
	SD CARD	
	Mount SD card Insert an SD card for mounting	
	Erase SD card Frases all data on the SD card, such as music and nhotos	

3.9 Apps

List all apps installed.

<u></u>		
Apps		:
	DOWNLOADED	RUNNING
	No apps.	
	lateral starse	
87MB used	Internal storage	4.7GB free

You can choose an application and force to shut down the app, uninstall the app, clear user data, move to SD card and clear cache data.

3.10 Permissions

(0:		9:01
< 🔯	Permissions	
	LOCATION	PERSONAL
2	Google Play services monitor location, coarse location, fine location	Running
P	Android System monitor location, coarse location, fine location	Running
Ø	Vettings wi-fi scan, coarse location, fine location	3 mins ago
Ø	SettingsMbox wi-fi scan, coarse location, fine location	3 mins ago
5 4	Android Live Wallpapers coarse location	
APP	AppInstaller coarse location, fine location	
	Browser coarse location, fine location	
0	Camera coarse location, fine location	
	com.amlogic.promptuser coarse location, fine location	

3.11Location

(i)		9:01
Cocation		OFF
	Mode Location off	
	RECENT LOCATION REQUESTS	
	Google Play services Low battery use	
	LOCATION SERVICES	
	Soogle Location Reporting Not available in China	

3.12 Security

(i)		9:01
(📩 Security		
	DEVICE ADMINISTRATION	
	DEVICE ADMINISTRATION	7
	Device administrators	
	View or deactivate device administrators	
	Unknown sources	
	Allow installation of apps from unknown sources	
	Verify apps	
	Disallow or warn before installation of apps that may cause harm	
	CREDENTIAL STORAGE	
	Storage type	
	Hardware-backed	
	Trusted credentials	
	Display trusted CA certificates	
	Install from SD card	
	Install certificates from SD card	
	Clear credentials	
	Remove all certificates	

3.13 Language & input

	Language English (United States)	
	Spell checker	幸
	Personal dictionary	
KEYBO	ARD & INPUT METHODS	
	Default English - Remote controller input method	
	Android Keyboard (AOSP) English (US)	丰
	Remote controller input method English	략
SPEEC	H	
	Text-to-speech output	
MOUS	E/TRACKPAD	

Change OSD language and input method.

The default input method is android standard keyboard.

If you are using our IR remote control, enter into "Default" option and switch to remote controller input method.

3.14 Backup & reset

(¢		9:02
ि (🔯 Backup &	reset	
	PERSONAL DATA	
	Factory data reset Erases all data on device	

Back up my data: You can backup your application data, WiFi password and other settings. Factory data rest: You can reset all the settings and apps to factory default.

Note: You might want to backup important data before resetting the box. Once you choose to rest to factory default, all data/apps will be deleted.

(¢			9:02
Settings			
	More	Add an account	
	DEVICE		
	∮ ୬ Sound	Corporate	
	🕼 Display	8 Google	
	Storage	а ————————————————————————————————————	
	🛃 Apps		
	Permissions		
	PERSONAL		
	Location		
	Security		
	🔼 Language & input		
	Backup & reset		
	ACCOUNTS		
	+ Add account		

3.15 Add an account

3.16 Accessibility

ility	
SERVICES	
No services installed	
SYSTEM	
Captions Off	
Magnification gestures	
Large text	
Power button ends call	
Auto-rotate screen	
Speak passwords	
Text-to-speech output	
Touch & hold delay	

3.17 Developer options.

Developer	options	
	Take bug report	
	Desktop backup password	
	Touch to change or remove the password for desktop full backups	
	Stay awake Screen will never sleep while charging	
	Select runtime	
	Use Dalvik	
	Enable Bluetooth HCl snoop log	
	Capture all bluetooth HCI packets in a file	
	Process Stats	
	Geeky stats about running processes	
	DEBUGGING	
	USB debugging	
	Debug mode when USB is connected	
	Power menu bug reports	
	Include option in power menu for taking a bug report	
	Allow mock locations	
	Allow mock locations	

3.18 About device.

(¢		9:03
(🔯 About device		
	Status Status of the battery, network, and other information	
	Legal information	
	Model number MX Enjoy TV BOX	
	Android version 4.4.2	
	Uboot version dac3ae5(20140307.131625)	
	Kernel version 3.10.10 tzh@ubt124 630810f-986bec7-dirty(20140307.134616)	
	Build number V001M801_20140307.20140307 test-keys	

4. Apps Install & Uninstall

On NovoPRO, you can install apps from Android Market over the Internet or other sources, such as other online sources, the internal storage and the USB storage device and SD card that you have mounted onto NovoPRO.

You also can manage apps on NovoPRO and SD card, install/uninstall apps, stop running apps, or select other options.

5. Trouble Shooting/FAQ

5.1 No Picture

Refer to the TV user manual for how to select the correct video input channel.

5.2 USB Content cannot be read

- . The format of USB storage device is not supported
- . The supported memory size is 32G maximum.
- . Make sure that this player supports these files.

5.3 Remote Controller cannot respond quickly to the pressing of keys

Make sure that batteries have enough power.

5.4 The firmware updating is not complete after a long time

If you update the firmware over the online service, it may take a long time to download the firmware update files from the server. To save your time, update the firmware through the SD card.

6. Specification

CPU	A9r4 CPU @ 2.0GHz
GPU	Mali 450MP4 @500MHz
RAM	2G DDR3
ROM	8G, EMMC
OS	Android 4.x OS

USB	USB2.0*1
HDMI	V1.4
DC Input	5.35V-2A
SD Slot	Max: 32G

LAN	RJ45 10/100M Ethernet interface
WiFi	IEEE 802.1 a/b/g/n /ac 2.4G, 5.8G

Audio Decoder	Low power MediaCPU with DSP audio processing
	Supports MP3, AAC, WMA, RM, FLAC, Ogg and programmable with 5.1
	down-mixing
Video/Picture	H.264 HP @L5.1 up to 4K x 2K@30fps
Decoder	H.264 MVC up to 1080P@60fps
	H.265 HEVC up to 720P
	MPEG-1 MP/HL up to 1080P@60fps
	MPEG-2 MP/HL up to 1080P@60fps
	MPEG-4 ASP@L5 up to 1080P@60fps
	WMV/VC-1 SP/MP/AP up to 1080P@60fps
	RealVideo 8/9/10 up to 1080P@60fps
	Multiple language and multiple format sub-title video support
	MJPEG and JPEG unlimited pixel resolution decoding
	Supports JPEG thumbnail, scaling, rotation and transition effects
	Supports .mkv/.wmv/.mpg/.mpeg/.dat/.avi/.mov/.iso/.mp4/.rm/.jpg files formats
Storage System	Built-in 4K bits One-Time-Programming ROM for key storage

7. Trademark Notice



The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in United States and other countries.

8. FCC Radiation Exposure Statement

The antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter