

# Rangemaster HDMI Monitor Drive User manual

Order code: Monitor\_Drive Revision Date: 25.01.2024

PROFESSIONAL SHOOTING GROUND AUTOMATION



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## **1. DESCRIPTION OF UNIT**

**Rangemaster HDMI Monitor Driver** is a video signal generator for monitor with HDMI output for showing shooting scores/progress

TECHNICAL DATA	
Power Input:	Power (input): via car battery, external power supply, polarity fail-safe
Power consumption:	Without monitor connected: < 1000mA at12V DC With monitor connected: < 2000mA at12V DC (assuming monitor needs less than 12W)
Min. supply voltage:	11,9V DC
Max. supply voltage:	15V DC
Operation temperature:	-5°C to +50°C
Output:	HDMI signal, audio stereo signal for speakers, data, power output for monitor 12V DC
Input:	Serial data from X2, X2 PRO, power in

### OPTIONAL ACCESSORIES OR DEVICES

Speaker, 4-80hm (YOU MUST NOT USE SPEAKERS WITH OHM >8)

Metal enclosure

Monitor (OPTIONAL/BOUGHT BY CUSTOMER)



## 2. INSTALLATION



IMAGE OF THE PCB SECTION	DESCRIPTION	CONNECTION
	<b>POWER IN</b> For connecting power	Connect ground to GND and 12V to +12V You can connect up to 2 car batteries at the same time.
SWITCH	<b>SWITCH</b> This is the power switch	It is connected "Ready to use" with the toggle switch "ON/OFF" inside the unit
	<b>MONITOR</b> This is the power output to the monitor	Connect ground to GND and 12V to +12V Connecting a 12V Monitor to this socked is only allowed, if the power consumption is less than 12W/1A at 12VDC. Otherwise use external power supply shipped with your HDMI monitor

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	WRONG POLARITY indicates if the polarity was not followed when connecting monitor power	If the power is supplied incorrectly (plus and minus are confused), the red LED1 "WRONG POLARITY" will light up
SPACE SPACE	SPEAKERS 	SPK OUT 1 and 2 - here we connect the wires that go to the speakers. XP2 connector - you can connect buttons here.
	COM 	A COM cable (RS232) that goes to X2 or X2 PRO is connected here USE ONLY THE CABLE SUPPLIED BY USE!







PUSH BUTTON	DESCRIPTION			
Toggle switch	Power on/off			
VALID FOR C	COMPAK INLINE ONLY			
1 <sup>st</sup> push button	Load Data from USB Stick			
2 <sup>nd</sup> push button	Save data from USB stick			
3 <sup>rd</sup> push button	Remove shooter			
4 <sup>th</sup> push button	Restore shooter			



## 3. SETTINGS UP (COLOUR, FONTS, SIZE)

To set up background colour, font size, resolution and so on connect a mouse to the mini computer (USB slots are shown inside the orange frame on the picture below).



To start setting up the scoreboard, double-click the scoreboard.

19 🖬 🗈   📕 😏   🐲 🎉 Chi Alt   🐚   연, 연, 🧠 🍭   🐼	
Layout 1	
NOCBIB NAME SCORE TOT	

The following window will open:

TOP TEXT				TOP	TEXT			
TOP TIME	Taxt	1 - 21/0	urt 1		Font	DeiaV	u Sanc	-
HEADER	Text:	Layo			Func:	Dejav		
LINES	Vertical:	-	2	+	Size:	-	22	+
BLOCKS	Herizontal	-	0	-	Font color:	<u> </u>		
WINDOW	nonzontai:	<u> </u>	0		Background color:			
TEMPLATES	Width:	-	142	+	background color.			_
VERSION	Height-	1	21	+	Ŷ.			
LOG	incigite.			<u> </u>				
CANELO DE L	6							
CANCEL								

You need to configure the following blocks in the column on the left:

Name of the block	Description						
ΤΟΡ ΤΕΧΤ	The text on the top line of the scoreboard. You can show the name of the range ( <i>Range A</i> ), the name of the competition ( <i>World Cup</i> ), or leave it empty						
ТОР ТІМЕ	The right part of the top line on the scoreboard, showing the time (00:00:00).						
HEADER	The second line is the header of the results table (NOC, BIB, NAME, SCORE, TOT).						
LINES	Table content.						
BLOCKS	Misses and hits shown in the column SCORE.						



Hold the **Alt** button on the keyboard and drag configuration window with the left mouse button so that you can move it and see the virtual scoreboard window in the program. This is necessary in order to see all the changes made in configuration window.

5	l 🖬 😭	1 1 9	e e j	Ctrl Alt			.   E	<b>\$</b>				
La	yout	1					00	0:00:00				
NC	CBIB	NAME	_	SCORE				TOT				
1	1	Name N	lame					25				
2	1	Name N	Jame				П	25				
3	1	Name N	lame				П	25				
4	1	Name N	Name				П	25				
5	1	Name N	Jame				П	25				
6	1	Name N	Jame				П	25				
		TOP	PTEXT			1	TOP	TENT				
		HE	ADER	Text:	Layout 1		><	Font:	De	jaVu Sans	-	
		L	INES	Vertical:		2	+	Size:		22	+	
		BL	OCKS	Horizontal:		0	+	Font color:				
		TEM	PLATES	Width:	•	142	Ē	Background color:				
		VE	RSION	Height:	•	21	+					
		C AV	EICLOSE									
		CA	ANCEL									

## 1.1 TOP TEXT

In this you can customize the appearance and size of the text of the top row of the scoreboard. You can show the name of the range (*Range A*), the name of the competition (*World Cup*) or leave it empty

Li	ayout	1		00:00	00:0
N	OCBIB	NAME	SCORE		TOT
1	1	Name Name			25
2	1	Name Name			25
3	1	Name Name			25
4	1	Name Name			25
5	1	Name Name			25
6	1	Name Name			25

To do this, you must fill in and / or edit the following fields:

TOP TEXT				TOP	TEXT			
TOP TIME	P.					-		
HEADER	Text:	Layo	ut 1	><	Font:	DejaV	u Sans	*
LINES	Vertical:	-	2	+	Size:	-	22	+
BLOCKS	Madaaabal	-	0		Font color:	<u> </u>		
WINDOW	nonzontai:	<u> </u>	0	+	Background color:			
TEMPLATES	Width:	-	142	+	background color.			_
VERSION	Height		21	-				
LOG	neight.	-	21	+				
SAVE/CLOSE								
CANCEL								



Name of the field	Description			
Text	Text shown in the top line of the scoreboard			
Vertical	Setting vertical position of the text			
Horizontal Setting horizontal position of the text				
Width Setting column width				
Height Setting column height				
Font	Setting text font			
Size	Setting text size			
Font color	Setting font color			
Background color	Setting background color			

To change the color, click the field with the color, and select the desired color from the palette that opens and click **OK**.



To enter values use 🗐 and

## 1.2 TOP TIME

THIS SECTION IS VALID FOR X3 VERSION ONLY!

L	ayout	1		00:00	:00
N	OCBIB	NAME	SCORE		TOT
1	1	Name Name			25
2	1	Name Name			25
3	1	Name Name			25
4	1	Name Name			25
5	1	Name Name			25
6	1	Name Name			25

To edit, click **TOP TIME** on the left side of the window.

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TOP TEXT				ТОР	TIME			
TOP TIME	Vertical:	•	2	+	Font:	DeiaV	u Sans	*
HEADER		Ξ-						
LINES	Horizontal:	-	418	+	Size:	-	22	+
BLOCKS	Width:	•	102	+	Font color:			
WINDOW	Holaht	-	- 11	-	Background color:			
TEMPLATES	rieignt:	-	21	+		-		
VERSION								
LOG								
SAVE/CLOSE CANCEL								

You will see the

window where you need to configure the following fields:

Name of the field	Description		
Vertical	Setting vertical position of the text		
Horizontal	rizontal Setting horizontal position of the text		
Width	idth Setting column width		
Height	Setting column height		
Font	Setting text font		
Size	Setting text size		
Font color	Setting font color		
Background color	Setting background color		

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

To enter values use 🗐 and

#### 1.3 HEADER

Here you can edit the header of the results table.

l	ayout	1		00:00	00:00
N	<b>IOCBIB</b>	NAME	SCORE		тот
1	. 1	Name Name			25
2	2 1	Name Name			25
3	3 1	Name Name			25
4	1	Name Name			25
5	5 1	Name Name			25
6	6 1	Name Name			25

To edit, click **HEADER** on the left side of the window.

Here you can make settings for the entire row and for each column in the row separately.



The top three fields - Vertical, Height and Background color - are general settings for the entire row.

TOP TEXT				HEA	DER			
TOP TIME HEADER *	Vertical:		26	+	Backgroun	d color:		
LINES R	Height: -	22		+				
BLOCKS	Columns							
TEMPLATES	NOC	BIB	NAME	SCORE	HIT	LOST	TOT	RANK
VERSION	Text:	NOC			Font:	DejaVu	Sans	*
LOG	Vertical:	•	0	+	Size:	-	19	+
	Horizontal:	•	0	+	Font color:			
SAVE/CLOSE	Width:	•	52	+	Visible:	V		
CANCEL								

Below are the settings for each column: NOC, BIB, NAME, SCORE, HIT, LOST, TOT, RANK.

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

To enter values use 主 and 💽

TOP TEXT		HEADER						
TOP TIME	Vertical: -	1	26	+	Background	d color:	-	
LINES	Height: -	Height: - 22			+			
BLOCKS	Columns							
TEMPLATES	NOC	1	BIB NAME SCC	RE	HIT	LOST	TOT	RANK
VERSION	Text:	NO	c		Font:	DejaVu S	ans	*
LOG	Vertical:	·	0	+	Size:	-	19	+
	Horizontal:	Ŀ	0	+	Font color:			
SAVE/CLOSE	Width:	ŀ	52	+	Visible:	✓		
CANCEL								

Here you can also configure the following:

Name of the field	eld Description			
Text	Text shown in the top line of the scoreboard			
Vertical	Setting vertical position of the text			
Horizontal	Setting horizontal position of the text			
Width	Setting column width			
Font	Setting text font			
Size	Setting text size			
Font color	Setting font color			

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

To enter values use +and





**NOTE:** Vertical, Horizontal and Width fields apply to the entire column, including the values in the column content.

It is also possible to hide the column when not in use. To do this, untag the **Visible** box. To display the column on the scoreboard, check the **Visible** box back.

Lay	/out	1		00:00	0:00	Lay	/out	1		00:00	0:00
	BIB	NAME	SCORE		TOT	NOO	CBIB	NAME	SCORE		TOT
	1	Name Name			25	1	1	Name Name			25
	1	Name Name			25	2	1	Name Name			25
	1	Name Name			25	3	1	Name Name			25
	1	Name Name			25	4	1	Name Name			25
	1	Name Name			25	5	1	Name Name			25
	1	Name Name			25	6	1	Name Name			25

If the column name does not completely fit into the specified width, you can increase the column width (Width) or decrease the font size (Size).

Layout 1 00:00						
NO	CBIB	NAME	SCORE	TOT		
1	1	Name Name		25		
2	1	Name Name		25		
3	1	Name Name		25		
4	1	Name Name		25		
5	1	Name Name		25		
6	1	Name Name		25		

### 1.4 LINES

Here you can customize the appearance of lines and text in the result table.

Li	ayout	1		00:00	0:00
N	OCBIB	NAME	SCORE		TOT
1	1	Name Name			25
2	1	Name Name			25
3	1	Name Name			25
4	1	Name Name			25
5	1	Name Name			25
6	1	Name Name			25

To edit, click **LINES** on the left side of the window.

TOP TEXT	LINES
TOP TIME	Vertical 48 + Engling 2 +
HEADER	Verucal: - 40 + Spacing: - 2 +
LINES	Height: - 25 + Background color:
BLOCKS	Columns
WINDOW	
TEMPLATES	NOC BIB NAME HIT LOST TOT RANK
VERSION	Font: Liberation Sans 👻 Font color:
LOG	Size: - 19 +
SAVE/CLOSE	
CANCEL	



The top four fields - Vertical (the position of the lines vertically), Height (the height of the row), Spacing (the distance between the rows in the table), Background color (the background color of the row) - are general settings for the entire row.

TOP TEXT					LIN	NES
TOP TIME	Vertica	a. E		48		Spacing: 2 +
HEADER	vertice	"  _	<u> </u>	40	-	Spacing.
LINES	Height	-	-	25	+	Background color:
BLOCKS	Column	16	-			
WINDOW	Column	15	2 0		7 (77)	
TEMPLATES	N	oc		BIB NAME		IT LOST TOT RANK
VERSION	Font:	Libe	eratio	n Sans	-	Font color:
LOG	Size:	•		19	+	j
SAVE/CLOSE						
CANCEL						

You can change the position of the lines, the height, and also set the background color of the line.

NC	OCBIB	NAME	SCORE	TOT
1	1	Name Name		25
2	1	Name Name		25
3	1	Name Name		25
4	1	Name Name		25
5	1	Name Name		25
6	1	Name Name		25

To make the background of the line transparent, click the **Background color** field and set the **Alpha** channel to "0". Depending on the value (0... 225), you can set the transparency for the background of the line.

Basic colors					-1
					l
					l
Pick Screen Color					ł.
	Huge	0 ‡	<u>R</u> ed:	255	¢
	Hug: Şat:	0 ‡	<u>R</u> ed: <u>G</u> reen:	255	•
<u>C</u> ustom colors	Hug: Sat: Val:	0 ‡ 0 ‡ 255 ‡	<u>R</u> ed: <u>G</u> reen: Bl <u>u</u> e:	255 255 255	
	Hug: Sat: Val:	0 ¢ 0 ¢ 255 ¢ Alpha	<u>R</u> ed: <u>G</u> reen: Bl <u>u</u> e: channel:	255 255 255 100	

OCBIB	NAME	SCORE	TOT
. 1	Name Name		25
2 1	Name Name		25
3 1	Name Name		25
1	Name Name		25
5 <u>1</u>	Name Name		25
i 1	Name Name		25

Below are the settings for the text in each column: NOC, BIB, NAME, HIT, LOST, TOT, RANK.

To change the color, click the field with the color, and select the color from the palette that opens and click **OK**.

To enter values use +and





TOP TEXT	LINES	Lavout 1	00.00.00
TOP TIME	Vertical: - 48 + Spacing: - 2 +	Layout I	
HEADER	Background color:	NOCBIB NAME SCOR	E <u>DT</u>
LINES	Height: - 25 + background color:	1 1 Name Name	25
WINDOW	Columns NOC BIB NAME HIT LOST TOT RANK	2 1 Name Name 🚺	25
VERSION	Font: Liberation Sans + Font color:	3 1 Name Name 🚺	25
LOG	Size: - 19 +	4 1 Name Name 🚺	25
		5 1 Name Name 🚺	25
CANCEL		6 1 Name Name 🚺	25

Here you can configure:

Name of the field	Description
Font	Setting text font
Size	Setting text size
Font color	Setting font color

To enter values use 🗐 and

## 1.5 BLOCKS

Here you can customize the blocks (hits, misses, upcoming shots) in the contents of the SCORE column.

L	ayout	1	00:00	:00
N	OCBIB	NAME	SCORE	TOT
1	1	Name Name		25
2	1	Name Name		25
3	1	Name Name		25
4	1	Name Name		25
5	1	Name Name		25
6	1	Name Name		25

To edit, click **BLOCKS** on the left side of the window.

TOP TEXT				BLO	CKS			
TOP TIME	Colors							
HEADER	Hit:				Empty:			
LINES	Lost:				H Gan		2	+
BLOCKS					n. oap.		-	-
WINDOW	Schemes							
TEMPLATES	Scheme:	#1: Sim	ple (25 TARGETS	5)				-
VERSION	Width.		6		Can	$\square$	10	( .
LOG	would:	-	0	-	Gap:	<u> </u>	10	- T
	Height:		23	+	Spacing:	-	3	+



Here you can set the following values:

Name of the field	Description
Hit	Setting the color of the block when hitting the target
Lost	Setting the color of the block when missing the target
Empty	Setting the color of the blocks of shots that have to be fired
Scheme	Setting the shooting scheme. The type, number and arrangement of blocks
	in the SCORE column changes depending on the selected shooting scheme.
	For schemes with 30 or more targets you can adjust H. Gap - the vertical distance between blocks in a group, since the blocks are arranged in a group in two rows (e.g, for scheme # 4: SKEET FINAL STAGE 2 (40 TARGETS)).
Width	Setting block width
Height	Setting block height
Gap	Setting distance between groups of blocks
Spacing	Setting horizontal distance between blocks within a group

To change the color, click the field with the color, and select the color from the palette that opens and

click **OK**.

To enter values use 🗐 and





#### 1.6 WINDOW

Here you can customize the background or image for the entire scoreboard.

To edit, click **WINDOW** on the left side of the window.



**ATTENTION:** In the Position and Resolution sections at the top of the screen, the settings are made once by a Rangemaster Systems employee according to the size of the installed scoreboard. It is strictly prohibited to change these settings.

At the bottom of the settings screen, in the **Background** section, you can change the background color (COLOR) or set the image (IMAGE) to the background of the scoreboard.



	LA	YOUT A S	SKEET		00:00	:00
NO	C BIB	NAME		SCORE		TOT
1	1	Name Name				25
2	1	Name Name				25
3	1	Name Name				25
4	1	Name Name				25
5	1	Name Name				25
6	1	Name Name				25



## **1.7 TEMPLATES**

Here you can choose a template from preset templates.

To edit, click **TEMPLATES** on the left side of the window.

You will see the following window:

TOD TEXT			TEMPLATES	
IOF IEAT	Template: Template 7			
TOP TIME	remporer			
HEADER	Save as factory settings	Restore factory settings		
LINES	Save as	Load		
BLOCKS				
WINDOW				
TEMPLATES				
VERSION				
LOG				
EXT. BUTTONS				
SAVE/CLOSE				
CANCEL				

From the drop-down list of templates you can select a template already set with color, line size, font, etc.

TOD TOVE			
TOPTEXT	Template: Template 2		
TOP TIME	Template L		
HEADER	Save as factory settings	Restore factory settings	
LINES	Save as	Load	
BLOCKS			
WINDOW			
TEMPLATES			
VERSION			
LOG			
EXT. BUTTONS			
SAVE/CLOSE			
CANCEL			

**ATTENTION:** The buttons below ("Save as factory settings", "Restore factory settings", "Save as ...", "Load ...") are intended for use by Rangemaster Systems employees only. **Using them is strictly prohibited!** 

#### 1.8 VERSION

This section is intended for use by Rangemaster Systems employees only. It is strictly prohibited to make changes in it!



## 1.9 LOG

This section is intended for use by Rangemaster Systems employees only.

#### It is strictly prohibited to make changes in it!

## 1.10 EXT. BUTTONS

This section is intended for use by Rangemaster Systems employees only.

#### It is strictly prohibited to make changes in it!

## 1.11 SAVE/CLOSE SETTINGS

To save settings, click the **SAVE / CLOSE** button in the lower left corner of the window.

TOP TEXT				тор	TEXT			
TOP TIME HEADER	Text:	Площа	дка А	><	Font:	Deja	/u Sans	*
LINES	Vertical:		2	+	Size:		22	+
BLOCKS	Harizantal	H	0		Font color:			
WINDOW	HUNZUNIAI:	<u>.</u>	U		Background color:			
TEMPLATES	Width:	-	142	+	background color:	_		_
VERSION	Height	Ā	21	-				
LOG	meight.	<u> </u>		-				

Restart the program to activate the changes.

To do this, point to the top of the window and click the icon in 🚺 the drop-down menu.



Click **Logout** in the drop-down list. In the window that opens, click **Reboot**. Then an information window appears, where you need to click **OK** button.



raspberrypi - TightVNC	Viewer		
🧏 🖬 🗃 🗈 🛛 🖽 😔	୧୫ 🗿 Cri Alt 🖳 🔍 ପ୍ ପ୍ 🔍 🔍		
🛎 🌒 🛅 🗾	ScoreBoard	🖒 Shutdown options 👻 🛪 🗙	raspberrypi - TightVNC Viewer X
Programming		Shutdown	Connection has been gracefully closed
Internet	>	Reboot	
Sound & Video		Logout	OK La
Graphics	* 1111 11111 11111 11111 11111		
Accessories	> <b>1111 11111 11111 11111 11111</b>		
Help	>		
Preferences	>		
Run			
🖍 Loggut			

The program will restart, launching the scoreboard with the settings you have set.

In case you do not want to save the settings set in the program, click the **CANCEL** button in the lower left corner of the window.

TOP TEXT				BLO	CKS			
TOP TIME	Colors							
HEADER	Hit:				Empty:			
LINES	Lost:				H. Gan:		2	+
BLOCKS					in capi		-	<u> </u>
WINDOW	Schemes							
TEMPLATES	Scheme:	#1: Sim	le (25 TARGETS	5)				*
VERSION	110.445				Car	0	10	
LOG	width:	-	6	+	Gap:	<u> </u>	10	<u>t</u>
	Height:	*	23	+	Spacing:	-	з	+
	-							
SAVE/CLOSE								
CANCEL								



## 4. OPERATING

#### 4.1. SWITCHING ON/OFF

Switch on HDMI driver unit first. Wait until the standard screen is visible. Then you power up X2 PRO. Switching off – sequence is not important.

#### 4.2. GENERATE FILE FOR DATA TRANSFER AND IMPORT DATA FROM USB STICK

To import list of the shooters follow the steps:

#### 1. Create a file in .txt format (NotePad file) and name it **input.txt**

2. Enter the list of the participants in the following format: *sequential number;back number; Last name \*capital letters), First name; NOC* 

E.g.:	//////////////////////////////////////	_	×
	1;298;GYOROK, Laszlo;HUN		~
1;298;GYOROK, Laszlo;HUN	2;299;NAESS, Tore;NOR		
	3;300;Mueller, Guenther;GER		
2;299;NAESS, Tore;NOR	4;301;BOSTRON, Anna;NOR		
	5;302;TUCCI, Marco;ITA		
3;300;Mueller, Guenther;GER	6;303;SUOMINEN, Karl;SWE		
	7;304;SHAKAYEV, Aryslan;KAZ		
	8;305;Allard, Jean Paul;FRA		~

3. Move the file on the USB stick

4. Insert the USB stick into the free USB slot of the Monitor driver (USB slots are shown inside the orange frame on the picture):





#### 5. LIMITED WARRANTY

Rangemaster Systems gives a limited warranty on this products against defects in material or workmanship for time of 12 months.

This period starts upon receipt of the product.

Rangemaster Systems will not be liable for loss of data or loss of profit or turnover due to a defect.

The warranty only includes repair or replacement of defect components, which failed during daily use. "Daily use" has to be read as: Use in accordance to specifications and in intended use.

General information & warranty exclusions: Damages due to water, moisture, vandalism, lightening, surges over power line or power supply, usage outside of specifications, excessive heat or cold (both for operation and storage) damages because of dropping the product, unnecessary force, damages because of empty or discharged batteries or accumulators are warranty exclusions and do not entitle you for a free of charge repair or replacement.

In case of chip card readers with contacts are built in the product. Items or dirt inside the reader are warranty exclusions.

In case of touch screens are built in the product: Damages due to improper use (using something else than your finger) causing scratches or punctures on the screen or on the touch surface will not be covered with warranty.

Please ask for a RMA number by sending an email to support@rangemaster.at Add invoice number, date of invoice and serial number of product. Also add a detailed description of errors.

Return unit for repair to:

Maxima WarenhandelsGmbH © Rangemaster Systems – Ext. Storage 8082 Weissenbach 9 Austria/Europe

Show your RMA number of the box. Send us a tracking link after returning the product to us.



## 6. RMA FORM

To: Maxima WarenhandelsGmbH © Rangemaster Systems – Ext. Storage 8082 Weissenbach 9 Austria/Europe

RMA:\_\_\_\_\_

Date:\_\_\_/\_\_\_/\_\_\_\_/

Date of purchase	
Supplied by	
Invoice number (Please attach copy of invoice)	
Product serial number	
Description of error	

#### Please return to:

Name	
Club	
Address 1	
Address 2	
Zip code	
City/Town	
Country	
Phone	
E-Mail	