

Instruction manual



LED matrix APP control Various colours

2 or 10 lines

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GENERAL INFORMATION

Dear Customer,

We are pleased that you have decided to use our hymn board model "HYMN-1-APP" or "HYMN-5-APP" with APP control.

During development and production, we have set ourselves the goal of being able to provide the user with an innovative, modern and yet user-friendly display system.

By using the highest quality components, sophisticated assembly techniques and field-tested tablets, we guarantee trouble-free, long-term use at the highest level.

Our product was developed according to the strictest quality criteria and meets all common standards.

We hope you enjoy using our product and are happy to answer any questions you may have about the hymn board.

IMPORTANT SAFETY INSTRUCTIONS

- 1. Please note the safety instructions and study these instructions carefully
- 2. Keep all notices and instructions
- 3. Only use the device in the manner intended
- 4. Respect the disposal laws applicable in your country; Please separate plastic and paper or cardboard boxes when disposing of them
- 5. If your device does no longer work properly, has been exposed to liquids or has been damaged in any other way, leave any type of repairs to authorized specialists only
- 6. Keep the hymn board and all components away from sources of heat and moisture
- 7. Check all power source connections DO NOT use defective outlets, cords or connectors
- 8. Only use the mounting material that we have supplied.
- 9. If lost, please feel free to contact us; we expressly point out that the use of other fastening materials for wall brackets or tripod brackets can damage the HYMN-1-APP / HYMN-5-APP. In this case, the warranty claim expires
- 10. Please check all components for completeness and possible damage immediately after receipt of the delivery

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SCOPE OF DELIVERY

- LED hymn board(s) (according to your order)
- Connection cable for power supply
- Wall mount with mounting kit (tripod mount optionally available)
- Gateway (radio transmitter) with power cord
- operation manual
- 7" Android tablet with pre-installed APP
- Original accessories & operating instructions (for the tablet)



WARRANTY CONDITIONS

The statutory guarantee conditions apply.

Only use the components supplied by us.

Power supplies with incorrect voltage rating can cause damage to the display, for which we do not guarantee take over. If, contrary to expectations, you have a problem, we will gladly help you quickly. Please contact us as soon as possible so that we can arrange everything for you. The warranty claim also expires in the event of improper repairs by non-authorized workshops. Proof of purchase (proper invoice from the seller) is required to claim warranty services. The guarantee is provided exclusively for the original purchaser.

POST-GUARANTEE SERVICE

Since the HYMN-1-APP / HYMN-5-APP model is our own product, we are still at your disposal for adjustments, extensions and service years later.

Accessories such as wall brackets, cables, mains adapters or tripods can be purchased separately in the event of damage or loss.

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INSTALLATION

1. HYMN BOARD / LED PANEL



- Mount the Vesa mount in a convenient location where the hymn board can be seen from all seats.
 - Fasten the hymn board with the 4 threaded screws provided.
- Plug the barrel connector of the supplied power pack (12~24V DC, 5.5/2.1mm) into the socket provided on the back of the hymn board.
- Now connect the power pack to a power source (socket or optional battery power pack)
- Please only use the supplied plugs and cables for this purpose.

2. RADIO TRANSMITTER (GATEWAY)

Connect the WLAN transmitter (connection to the hymn board) to the power supply.



PLEASE MAKE SURE THAT THE TABLET IS ALWAYS IN THE RECEPTION RANGE OF THE WLAN TRANSMITTER (see Appendix A)

3. TABLET

- When using the tablet for the first time, please follow the manufacturer's original operating instructions.
- Now use the tablet to dial into the WLAN "Liedanzeige" (hymn board) (you can find the procedure for this in the original operating instructions for the tablet supplied)



• If you do not receive a connection confirmation, please check whether the hymn board and the radio transmitter are correctly connected to a power source or whether you have used the cables provided (radio - black). If this is the case, reduce the distance between the radio transmitter and the tablet (max. 10-15 meters, depending on the structural conditions, shielding, etc.)

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3.1 OPERATING SOFTWARE (APP)

The operating software for the hymn board is already pre-installed by us and is started via the APP "RemoteXY" (we put it on page 1). In this app (RemoteXY) you will find the icon with the label "Liedanzeige" (hymn board), which enables the actual communication with the song display. It is a fully-fledged tablet that you can of course use in all available applications.

However, please make sure that the APP installed by us is retained in any case.

If you accidentally delete the app, we are of course happy to help. We ask for your understanding that this is outside the scope of the guarantee.



INPUT SOFTWARE (APP - HYMN BOARD)

Please press the button "Liedanzeige" (hymn board) - the display "Connecting" will now appear briefly - checking the connection to the gateway.

The gateway (radio transmitter) serves as a connection from the tablet to the receiver of the hymn boards and is also mandatory for starting the operating software.

You are now automatically in the entry mode of page 1.

If this is not the case, check possible causes of the error as described in Appendix B.



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INPUT SOFTWARE (APP - HYMN BOARD)

1. FUNCTIONAL OVERVIEW



1.1. RECORDING OF DISPLAY TEXTS

A total of 20 memory locations (2 lines each) are available on pages 1 to 4.



The hymn boards HYMN-1-APP and HYMN-5-APP allow you to use the full character set of the tablet including special characters, upper and lower case. Each line is limited to 5 digits. Only the choir boards HYMN-1-40 and 1-70 as well as the main board HYMN-5-50 cannot distinguish between upper and lower case due to the smaller letter height. This means that if you use a HYMN-1-140-APP as the main board for example, you will see the board displayed exactly as on the tablet, but at the same time only capital letters displayed on the choir board.

Tapping on the corresponding field takes you to the input mode (on-screen keyboard). For further information on using the keyboard, please refer to the tablet's original operating instructions.

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Both lines do not necessarily have to be captioned at the same time, alternatively you can use only one of the two lines.

Please be sure to press the SAVE button (top right) after entering the song number.

In order for you to see the entry / entries on the LED board, you must set the desired line to ACTIVE.

Page 1 Page 2 Page 3 Page 4	To do this, press song number "1".
DEMO X (1) V 1.0 X	
BOOK 2 1-2+6 2	
	The button next to the song number now lights up red
DEMO	
V 1.C	You can now see your input from line 1 on the LED panel

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INPUT SOFTWARE (APP - HYMN BOARD)

1.2 RECORDING IN MEMORY 1 TO 4

The procedure for recording memories is the same as for individual recording (1.1).

Up to 20 displays are available in the 4 memories.

You can also make the recordings in the parish office or at home, but please note that you must take the radio transmitter with you in any case. This prepares your entries for output on the hymn board and must be in operation when recording. Otherwise the APP would give you the error message "disconnected" and not forward you to the input fields.

1.3 DISPLAY OF SAVED ENTRIES

After recording and SAVING all entries and, if necessary, selecting the color with "F", you can now send all data to the displays during the service with just one keystroke. Press "1" (the red control button lights up); the first song number appears on the hymn board. To call up the "2" and more, you only have to press the "Next" button. The red control button now automatically jumps to "2", etc.

1.4 RUN-THROUGH OF SAVED ENTRIES (PAGE 4)

A very useful option to give the parish the opportunity to prepare hymn books BEFORE the service starts.



The song numbers/verses are displayed continuously in the order entered. The software checks your entries and only outputs occupied fields. For example, if you have stored data for No. 1 to No. 7, the run at No. 7 automatically jumps back to No. 1.

It will show No.1 (for 2 seconds) and then song number/verse (for 20 seconds) No. 2 song number/verse etc. The duration of the display is set like this as standard. An adaptation to your wishes can be made by us. If, for example, no text was entered in line song 5, i.e. the field is empty, the run will always only be displayed from 1 to 4, and then it will start again from the beginning. It is therefore essential to avoid empty memory locations between the recorded song numbers.

As soon as the service begins, it is essential to OFF the run-through so that only the current song number/ verse can be released for display by the organist, for example.

2. SETTINGS OF DISPLAY COLORS / MENU F

You have the option of designing EVERY display line separately in countless RGB colors. To do this, go to the COLOR menu "F" - as shown in the function overview. You can choose different colors for the song number and verse.



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INPUT SOFTWARE (APP - HYMN BOARD)

To make a color selection, move the outer ring to the desired color box. The second, inner circle controls the color intensity of the display (bright/dark). You can see the result of your choice in the inner circle.

These entries can IMMEDIATELY be seen on the LED display.

Proceed in the same way for the line "Verse". Here, too, every change is IMMEDIATELY visible.



3. BASIC SETTINGS / TIMER / MENU C "CONFIG"

3.1 SETTING THE DISPLAY DURATION (TIMER FUNCTION)

In normal mode, the display of the entered text will be shown on the LED DISPLAY until you make a selection either by song number or "next". In addition, the software enables you to generate the display duration via a timer function.

To do this, use the C button to go to the CONFIGURATION menu

DISPLAY DURATION

Optionally from 1 to 100 seconds.

The song number/verse disappears automatically after the entered time has elapsed.

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INPUT SOFTWARE (APP - HYMN BOARD)



3.2 BRIGHTNESS

Your LED display is equipped with a sensor and automatic brightness adjustment, which regulates itself depending on the incidence of light on the display. In automatic mode, EACH of the displays may adjust itself separately; as soon as you switch to manual brightness control, your entry applies to ALL mounted hymn boards SAME. An individual adjustment to the ambient light is only possible via the automatic function.

Manual setting

To do this, switch the automatic to OFF and move the slider to the RIGHT to make it brighter, to the LEFT to make it weaker.

To reactivate the internal brightness sensor of the LED displays, switch the automatic function to ON.



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TECHNICAL SPECIFICATIONS

HYMN BOARD / LED MATRIX ("HYMN-1" / "HYMN-5")

Radio transmitter / receiver	Frequency 868MHz
Wireless range free field	about 200m
Power supply	12~24V DC / 1400700mA
Plug-in power supply	220-240 VAC (operation with 115 VAC possible on request)
Power consumption / mean value	1000mA/12VDC
Dimension	Depending on the version ordered
Weight	Depending on the version ordered
Character height	Depending on the version ordered
Dot matrix	Depending on the version ordered
Depiction	2 lines (HYMN-1-APP) or 10 lines (HYMN-5-APP) / 5 characters per line
Display type	Colored design in RGB colors individually adjustable per line via soft- ware; Alphanumeric in the full character set of the tablet keyboard
Reading distance	Depending on the version ordered
Brightness control	Manually via software or automatically via the built-in sensor
Timer function	Display duration adjustable via software

HYMN BOARD GATEWAY (RADIO TRANSMITTER) MATRIX

WiFi	IEEE 802.11 b/g/n 2.4GHz (reception from input device)
Radio transmitter/receiver	Frequency 868 MHz (For hymn board)
Wireless range free field	About 200m
Power supply	5V/500mA (plug power supply / USB)
Current consumption / mean value	100mA/5V
Dimension	85 x 65 x 28 mm (W x H x D)
Weight	about 0.1 kg

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TECHNICAL SPECIFICATIONS

TABLET (SAMPLE CONFIGURATION - SUBJECT TO AVAILABILITY)

Brand	Lenovo
Model/series	TAB3 A7-10
Item weight	299 g
Product dimensions	19 x 1 x 11.3 cm
Colour	black, blue
Form factor	tablet
Screen size	7 inch
Screen resolution	1024x600 pixels
Processor speed	1.3GHz
Processor cores	4
RAM size	1GB
Storage technology	LPDDR3 SDRAM
Storage Art	DDR4 SDRAM
Random access memory	1GB
Size of hard disk	8GB
Permanent storage	Flash
Audio output	3.5mm
Chipset manufacturer	ARM
Connectivity type	WIRELESS INTERNET ACCESS
WiFi type	802.11B, 802.11G, 802.11n
Operating system	Android
Battery type	Lithium Ion (Li Ion)
Average battery life	10 hours
Lithium battery capacity	50 watt hours







The "Gateway" builds its own Wifi network with the ssid "Liedanzeige". Up to 4 cell phone or tablet devices can be connected to the gateway via Wifi. The range of the Wifi network is much shorter than the 860MHz frequency which the gateway uses to send to the hymn board.



Dämpfung der Funkwellen

Leider haben Funkwellen den Nachteil, dass sie mit der Reichweite schwächer werden. Das bedeutet, Funkwellen haben keine unendliche Reichweite. Funkwellen werden durch Gegenstände gedämpft. Je nach Materialbeschaffenheit und -zusammensetzung der Hindernisse ergeben sich unterschiedliche Dämpfungseigenschaften

Material	Dämpfung	Beispiele
Holz	gering	Möbel, Decken, Zwischenwände
Gips	gering	Zwischenwände ohne Metallgitter
Glas	gering	Fensterscheiben
Wasser	mittel	Mensch, feuchte Materialien, Aguarium
Mauersteine		Wände, Decken
Beton	hoch	massive Wände, stahlarmierte Betonwände
Gips	hoch	Zwischenwände mit Metalloitter
Metall	sehr hoch	Aufzugsschacht, Brandschutztüren, Stahlbetonkonstruktionen

Quelle: https://www.elektronik-kompendium.de/sites/kom/0810301.htm

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APPENDIX B / ERRORS AND FIXES

TABLET DOES NOT START THE APP

Possible causes

A) No WLAN connection to the gateway

Under SETTINGS on your tablet, check whether the WLAN connection with "Liedanzeige" (hymn board) is available. If this is not the case, check whether the gateway is correctly connected to a power source or whether you are within the recommended reception range of the gateway (see Appendix A). If the range has not been exceeded, carry out a RESET on the gateway.

To do this, use a pen or something similar to press the small button to the right of the LED control light for around 10 seconds. Now restart the tablet and establish the connection via the ICONS RemoteXY and hymn board.

B) After starting RemoteXY, there is no shortcut "Liedanzeige" or the software has been updated

Delete and regenerate link. To regenerate the link to "Liedanzeige" in the APP RemoteXY, proceed as described below

1: Click on "+" at the top right

2: Select "Wi-Fi Point"

3: In the Wlan-ssid window, select "Liedanzeige". If "Liedanzeige" is not available for selection switch on the tablet's WLAN, click on the round double arrow at the top right. It should now all available WLANs are listed. Select "Liedanzeige".

4: Now the program should be started

5: The color or parameters of the created icon/shortcut can be changed by long pressing on it Icon/Shortcut "Liedanzeige" can be changed

NO PRESENTATION ON THE HYMN BOARD

Possible causes

A) The hymn board is not properly connected to a power source.

B) The supplied power supply unit was not used - ATTENTION !! In this case, the electronics of your hymn board may have been damaged - WARRANTY LOST!!

C) The reception between gateway and hymn display is disturbed

Through reflections, reinforced concrete, niches, etc. reception may be disrupted. Bring the gateway closer to the hymn board and reboot the system. With larger distances and several hymn boards, it may be necessary to use an additional repeater. In this case, please contact us.

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MODELS

 HYMN-1 SERIES 2 lines 2-fold display 5 characters per line 	L-697 1+3-6	 		L-697 1+3-8
	HYMN-1-180	HYMN-1-140	HYMN-1-100	HYMN-1-70
Туре	Main display	Main display	Main display	Choir display
Reading distance	up to 60-70 m	up to 50-55 m	up to 35-40 m	up to 15-20 m
Dimensions (WHD)	60 x 45 x 3 cm	48 x 32 x 3 cm	40 x 30 x 3 cm	32 x 16 x 3 cm
Number of LEDs	6,100	6,100	6,100	3,050
Digit height	180 mm	140 mm	100 mm	70 mm
Lines	2	2	2	2

HYMN-5 SERIES

- 10 lines
- 5-fold display
- 5 characters per line

1 1 2 3		
1+6-9	L 123	
	1 + 6 - 9	
	981	
ABANE	4-6/8	
mu uuu		123
	abcde 👫	6-9
net L	heft (A)	8+8
		J L L
		4 4 4 6 - 9
	<>!#& 2 ⁸	1 8 + 8
•	•	•

	<i>I</i>		
	HYMN-5-110	HYMN-5-70	HYMN-5-50
Туре	Main display	Main display	Main display
Reading distance	up to 35-45 m	up to 20-25 m	up to 12-15 m
Dimensions (WHD)	39 x 102 x 3.5 cm	32 x 96 x 3.5 cm	26 x 53 x 3 cm
Number of LEDs	24,500	12,288	8,000
Digit height	110 mm	70 mm	50 mm
Lines	10	10	10



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Our hymn board product range includes many other high-quality products. Here you can see a small excerpt. More information can be found on our website: **www.phoenix-pa.com/shop**



Disclaimer

The author points out that the representations, explanations, calculations and the like contained in the guideline are only of an exemplary nature. They reflect the current state of knowledge and the current legal situation, but do not claim to be complete. In view of the complexity of construction projects, the development of individual solutions related to the respective project is essential. Liability for all descriptions, applications, references and transfers of parts of the guideline or individual information is hereby expressly excluded.

Important instructions

The following applies to all pages of this description: Subject to technical changes and printing errors. The illustrations are similar, subject to color deviations.