# ROLLART

SETUP MANUAL

v. 2025



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Index

1	Intro	duction	3
2	Tech	nnical Requirements for the World Skate RollArt judging system	4
	2.1 2.2 2.3	Technical Panel Judge & Referee Panel Network Setup 2.3.1 How to assign static IP address using Control Panel	4 4 5 6
3	Soft	ware Installation and PC Setup	8
	3.1	Technical Panel installation3.1.1Check the database configuration	8 0
	3.2	Judge & Referee Panel installation1	1
	3.3	PC Setup1	4
		3.3.1 Power Management1	4
		3.3.2 Lid Operation1	4
		3.3.3 Firewall and general settings1	5
4	Pre-	competition checklist 1	6
	4.1	Using the data operator interface - quick guide1	8
5	Inde	x of tables and figures 1	9

## 1 Introduction

This document provides an overview and basic information on installing and setting up the RollArt System.

#### Associated Documents

Please refer to the following documents about:

- Release Notes: RollArt\_ReleaseNotes\_2025.pdf
- User Manual: *RollArt\_UserManual\_2025.pdf*
- VideoScreen manual: Rollart Video Display.pdf

# 2 Technical Requirements for the World Skate RollArt judging system

#### **IT Requirements**

- ✓ 1 Laptop for **Data Operator**/Event Manager
- ✓ 3-9 Laptops or Tablets with Windows OS for the judges/referee (3 minimum and up to 7 currently recommended 5)
- ✓ Ethernet switch with at least 9 ports
- Network wires from up to 3 meters to 15 meters for the judges further away.
   9 Network wires in total.
- ✓ Sufficient Power plugs and extensions to connect all the systems.
- ✓ Projector to connect to the data operator PC (via HDMI).

#### 2.1 Technical Panel

The Tech panel installs and uses the following prerequisites:

• Dot net framework version 4.7

Recommended specifications for PC or Laptop for Tech Panel.

- Intel core i5 or better.
- 15" Screen size.
- Application Window Size 1146 x 763 (smallest).
- Screen resolution 1366x768 or better (HD+ 1600 x 900 or 1920 x 1080 recommended if available).
- Minimum 4 GB Ram, 8GB preferred.
- Windows 7 up to Windows 11.
- Ethernet Port 100M min (1G recommended to allow for video in future). (*It is not recommended to attempt to operate the system over WiFi*).
- HDMI 2.0 (1.4 compatible) port

#### 2.2 Judge & Referee Panel

The Judge & Referee panel installs and uses the following prerequisites:

• Dot net framework version 4.0

Recommended specifications for PC or Laptop for Judge & Referee Panel.

- Intel core i5 or better.
- 10" Screen size.
- Screen resolution 1024x768 or better (1920x1080 preferred)
- Application Window Size 1018 x 720
- Minimum 2 GB Ram
- Windows 7 up to Windows 11.
- Ethernet Port 100M min (1G recommended to allow for video in future). (*It is not recommended to attempt to operate the system over WiFi*).

#### 2.3 Network Setup

Data Operator PC (tech Panel) and Judges PCs (judge panel) are all connected via star layout network, using an Ethernet switch (100M switch may be used, 1G is recommended to allow for video in the future).



Figure 1 RollArt layout

All Computers must be in the same logical Network,

i.e. they all have the same IP subnet mask and use the same IP address range.

#### One computer can be set as Judge + Referee

Network configuration sample with 5 judges, Referee and VideoScreen (external application, optional):

	IP Address	Subnet mask
Tech Panel	192.168.0.200	255.255.255.0
(data operator or Assistant for		
SHOW groups)		
Referee	192.168.0.201	255.255.255.0
Judge 1	192.168.0.202	255.255.255.0
Judge 2	192.168.0.203	255.255.255.0
Judge 3	192.168.0.204	255.255.255.0
Judge 4	192.168.0.205	255.255.255.0
Judge 5	192.168.0.206	255.255.255.0
VideoScreen	192.168.0.209	255.255.255.0
(video operator)		
VideoReview (cutter)	192.168.0.210	255.255.255.0

#### 2.3.1 How to assign static IP address using Control Panel

Control Panel can be used to change the IP settings of your Windows 10 PC to static IP (other versions of Windows also allow static IP but windows will vary according to the Operating System).

- 1. Open Control Panel.
- 2. Click on Network and Internet
- 3. Click on Network and Sharing Center.
- 4. On the left panel, click the "Change adapter settings" link



Figure 2 Control Panel's Network and Sharing Center

5. Right-click the ethernet network adapter and select Properties:

Networking			
Connect using:			
Intel(R) 82574L	Gigabit Network Conn	ection	
		Con	figure
This connection uses	the following items:		
Client for Mic	rosoft Networks er Sharing for Microsof Scheduler	t Networks	^
🗹 🛄 Internet Proto	ocol Version 4 (TCP/IP	v4)	
🔲 🔔 Microsoft Net	twork Adapter Multiple:	kor Protocol	
Microsoft LLI	DP Protocol Driver		
Internet Proto	ocol Version 6 (TCP/IP	v6)	. *
		_	
l <u>n</u> stall	Uninstall	Prop	perties
Description			
Transmission Contra	ol Protocol/Internet Pro	tocol. The communicati	default ion
wide area network across diverse inter	connected networks.	Sommariout	
wide area network across diverse inter	connected networks.		

Figure 3 Control Panel's network adapter properties

- 6. Select the Internet Protocol Version 4 (TCP/IPv4) option.
- 7. Click the Properties button.

Internet Protocol Version 4 (TCP/IPv4)	Properties	×		
General				
You can get IP settings assigned autorr this capability. Otherwise, you need to for the appropriate IP settings.	natically if your network supports ask your network administrator			
O Obtain an IP address automatically				
• Use the following IP address:				
IP address:	192 . 168 . 7 . 255			
Subnet mask:	255 . 255 . 255 . 0			
Default gateway:				
○ O <u>b</u> tain DNS server address autom	natically			
• Use the following DNS server add	resses:			
Preferred DNS server:				
Alternate DNS server:				
Ualidate settings upon exit	Advanced			
	OK Cancel			

Figure 4 IPv4 Properties. Setting manual IP

- Select the "Use the following IP address" option.
   Set the "IP address" (e.g., 192.168.7.255).
   Set the "Subnet mask" to 255.255.255.0.

- Set the "Default gateway" and "DNS server" addresses to blank value.
   Click "OK" to save and close.
- 13. Click "Close" to close the network adapter properties.

## 3 Software Installation and PC Setup

#### 3.1 Technical Panel installation

The RollArt Tech Panel installer is a single installer file, which contains all prerequisites for the application.

The Tech panel setup installs the following third-party modules:

- Crystal Reports version 13.0.35 (32 bit)
- SQLite ODBC Driver (32 bit)
- SQLite data .NET framework 4.0 (32 bit)

#### Installation Steps

Follow these general installation and configuration steps:

- 1. Run RollArt\_SetupTechPanel\_5.2.exe
- 2. Click on "Next" to install the tech panel into the default folder:

Setup - Rollart 2025 - Tech Panel version 5.2			×
Select Destination Location Where should Rollart 2025 - Tech Panel be installed?			Ô
Setup will install Rollart 2025 - Tech Panel into the following	folder.		
To continue, dick Next. If you would like to select a different folder,	click Bro	wse.	
C: \RollartSystem	Bro	owse	
At least 214,3 MB of free disk space is required.			
Nex	t >	Car	ncel

Figure 5 Setup TechPanel - step 1

3. Click on "Yes" if the folder already exists:



Figure 6 Setup TechPanel - Choose Yes

4. Click on "Next" to create a Desktop shortcut:

Select Additional Tasks Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing Rollart 2025 - Tech Panel, then click Next.
Additional shortcuts:
✓ Create a desktop shortcut
< Back Next > Cancel

Figure 7 Setup TechPanel - step 2

5. Click on "Install" to continue with the installation:

eady to Install			1
Setup is now ready to begin install computer.	ing Rollart 2025 - Tech Pan	el on your	
Click Install to continue with the in change any settings.	stallation, or click Back if yo	u want to reviev	vor
Destination location: C:\RollartSystem			^
Start Menu folder: RollArt			
Additional tasks: Additional shortcuts: Create a desktop shortcut			
<			~
			_

Figure 8 Setup TechPanel - step 3

9

Click on "Finish" to complete the Tech Panel installation:



Figure 9 Setup TechPanel - completing setup

#### 3.1.1 Check the database configuration

Open ODBC Data source (32 bit). You have two ways to open odbc on the tech panel pc:

- a) Type "odbc" in the search box on taskbar and choose "Set up ODBC data sources" from the list.
- b) In the Control Panel type "odbc" in the top-right box, and choose "Set up ODBC data sources (32-bit)".

Confirm the "rollerjudge" data source is present under "User DSN":

	DSN di sistem	a DSN su fi	ile Driver	Analisi	Pool di conness	sioni	Informazioni		
gine dati	utente:								
lome		Piattaforma	Driver				1	Aggiungi	
SSO		32 bit	Microsoft /	Access D	river (*.mdb, *.ac	cdb)			
dBASE Files 32 bit			Microsoft /	Access d	BASE Driver (*.db	of, *.nd		Rimuovi	
xcel File	s	32 bit	Microsoft	Excel Driv	rer (*.xls, *.xlsx, *.	xlsm, *			
ollerjudge		32 bit	SQLite3 0	DBC Driv	er		0	Configura	
ISIO Data	ibase Samples	32 DIL	MICrosoft /	Access D	iiver ( .iiidb, .aci	Cub)			
						>			
	Una origine dai indicato. Una c	ii utente ODB rigine dati ute	C memorizza ente è visibile	a informaz e solo all'i	ioni sul metodo d utente corrente si	li conn olo nel	essione al pr computer co	ovider di dati mente.	

Figure 10 ODBC User DSN - check rollerjudge

Double click on "rollerjudge" and verify the Database Name:

SQLite3 ODBC DSN Configuration	×
Enter options for co	onnect
Data Source Name: rollerjudge	
Database Name: C:\RollartSystem\rollar	tevents.s3db Browse
Lock Timeout [ms]: 100000	🗌 No TXN 🛛 🗌 Step API
Sync.Mode: NORMAL 🗸	Short Column Names
🗌 Foreign Keys	Long Column Names
OEMCP Translatio	n 📃 Don't Create Database
Always BIGINT	No WCHAR
🗌 Julian Day Conv.	
Load Extensions:	
	OK Cancel

Figure 11 ODBC User DSN - check rollerjudge path

Click on OK to close.

#### 3.2 Judge & Referee Panel installation

The RollArt Judge & Referee Panel installer is a single installer file, which contains all prerequisites for the application.

#### Installation Steps

Follow these general installation and configuration steps, after network configuration:

- 1. Run RollArt\_SetupJudgeReferee\_5.2.exe
- 2. Click on "Next" to install the judge panel into the default folder:

🛃 Setup - Rollart 2025 - Judge & Referee Panel version 5.2 — 🛛 🗙
Select Destination Location Where should Rollart 2025 - Judge & Referee Panel be installed?
Setup will install Rollart 2025 - Judge & Referee Panel into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\RollartSystem\JudgePanel Browse
At least 18,1 MB of free disk space is required.
Next > Cancel

Figure 12 Setup Judge & Referee Panel - step 1

3. Click on "Next" to create a Desktop shortcut:

Setup - Rollart 2025 - Judge & Referee Panel version 5.2				×
Select Additional Tasks Which additional tasks should be performed?				Ô
Select the additional tasks you would like Setup to perform wh - Judge & Referee Panel, then click Next.	ile insta	alling Ro	llart 2025	;
Additional shortcuts:				
Create a <u>d</u> esktop shortcut				
< <u>B</u> ack	<u>N</u> ext	>	Can	cel

Figure 13 Setup Judge Panel - step 2

4. Click on "Install" to continue with the installation:



Figure 14 Setup Judge Panel - step 3

🍠 Setup - Rollart 2025 - Judge & Referee Panel version 5.2 — 🛛 🔍					
	Completing the Rollart 2025 - Judge & Referee Panel Setup Wizard				
	Setup has finished installing Rollart 2025 - Judge & Referee Panel on your computer. The application may be launched by selecting the installed shortcuts. Open Settings to change default values.				
	Click Finish to exit Setup.				
	☑ Launch Rollart Judge Panel				
WORLD					
SKATE					
	Einish				

Figure 15 Setup Judge Panel - step 4

5. At the end of the installation process click on "Finish" to open the Judge & Referee Panel and to set the Judge number and the IP address of the tech panel:

RollArt Judge Panel- Settings					
Tech panel IP address:	127.0.0.1				
Judge - Referee:	Judge 1 + Referee 🔹				
🗹 Enable marks for Referee	Random button enabled				
Close	Save and Close				

Figure 16 Change default values

The Settings window allows setting the Judge role between three different modes:

- Judge only (from 1 to 9)
- Referee only
- Judge (from 1 to 9) + Referee

Other options:

- Enable marks for referee: it allows to show to the referee all the Judges qoes and components at the end of each segment
- Random button enabled (<u>for TESTING PURPOSE only</u>): it allows to use a hidden button to assign random qoes and components

Save and Close to confirm the Judge Number and IP address.

#### 3.3 PC Setup

To ensure smooth operation during competition it is recommended to ensure that all the computers are configured to eliminate interference with operation of the system due to operating system actions.

The following settings must be applied to all judge panels and to the technical panel computer.

#### 3.3.1 Power Management

To ensure computer will not turn off during competition configure power management to "Never Turn off the display and never put the computer to sleep".

✓ Control Panel\All Control Panel Items\Power Options\Edit Plan Settings



Figure 17 PC Setup - power management

#### 3.3.2 Lid Operation

To allow Judges the option to close PC display for better view during competition set to "Do nothing on close and when the power button and the sleep button are pressed".

✓ Control Panel\All Control Panel Items\Power Options\System Settings

e apply to all of your power plans.	r your computer. The e	nunges y	ou make to the settings o	ii ans
Change settings that are currently unava	ailable			
wer and sleep buttons and lid settings -				
	0n batte	ry	🚿 Plugged in	
When I press the power button:	Do nothing	~	Do nothing	~
When I press the sleep button:	Do nothing	$\sim$	Do nothing	$\sim$
When I close the lid:	Do nothing	$\sim$	Do nothing	$\sim$
utdown settings				
utdown settings	3)			
utdown settings Turn on fast startup (recommendee This helps start your PC faster after sh	d) utdown. Restart isn't af	fected. L	earn More	
utdown settings Turn on fast startup (recommendee This helps start your PC faster after sh Sleep Show in Power menu.	d) utdown. Restart isn't af	fected. L	earn More	
utdown settings Turn on fast startup (recommendee This helps start your PC faster after sh Sleep Show in Power menu. Hibernate	d) utdown. Restart isn't af	fected. L	earn More	
utdown settings Turn on fast startup (recommendee This helps start your PC faster after sh Steep Show in Power menu. Hibernate Show in Power menu.	d) utdown. Restart isn't af	fected. 📘	earn More	
utdown settings Turn on fast startup (recommended This helps start your PC faster after sh Sleep Show in Power menu. Hibernate Show in Power menu. Lock	d) utdown. Restart isn't af	fected. <u>L</u>	eam More	

Figure 18 PC Setup - lid operation

#### 3.3.3 Firewall and general settings

#### Disable Firewall and enable Ping

If you have a "firewall" enabled in Windows, "ping" requests are blocked by default. To configure your firewall to allow pings, follow the appropriate instructions below. NOTE: You may be prompted for "administrative access" to complete these steps.

- 1. Search for "Windows Firewall", and click to open it.
- 2. Click "Advanced Settings" on the left.
- 3. From the left pane of the resulting window, click "Inbound Rules".
- 4. In the right panel, find the rules titled "File and Printer Sharing (Echo Request ICMPv4-In)".
- 5. Right-click each rule and choose "Enable Rule".

#### Disable Virus scanner and Windows Update

In order to avoid any performance issues on your system, make sure to switch off or disable.

- ✓ Virus scanner
- ✓ Automatic Windows update

#### **General Settings**

In addition, it is recommended to switch off the WLAN card (if your notebooks feature WLAN and if you are not using WLAN). Do not use any Virtual Private Network also known as VPN.

Furthermore, it is recommended to hide the Windows "Start menu" (right-click on the start bar and select "Properties" and then "Hide the start bar".) This is especially useful on the Judges Panels.

Switch off the sound on the system by muting the speakers.

# 4 Pre-competition checklist

Rules to ensure the correct initialization of the RollArt system for a standard competition:

- ✓ Ensure that all the computers are correctly configured and connected to the same network via lan
- ✓ Ensure that the HDMI cable is connected to the TechPanel hdmi port. Select "Settings→ Video" and click on <u>Preview Skater</u>:

ې General	📃 VideoScreen is not connected 💭	
Database Elements	IP Address:         127 ⋅ 0 ⋅ 0 ⋅ 1           Ping time in ms:         5000    Port: 10005	VideoReview port: 10006 🗦 🔤
Parameters	"Progressive" - send Start for element with	h level
Competitors	Overwrite "Info" field with "Program Title"	(Precision, Quartets, Show only)
Officials	Use Static Screen if VideoScreen Appli	cation is not connected
Video Results Close	ON Uise Display Switch Preview Skater Display time in seconds (SHOW CROUPS only): 30	sults Preview Results for Show Groups
	Short Description (SHOW GROUPS - QUARTETS) Background color Text color Font TextAlign Left O Center	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo conseguat.

Figure 19 Preview display score

<u>Run the technical panel before starting any judge's panels:</u>



Figure 20 Tech Panel Splash screen

 $\checkmark\,$  Run all the judge panels. If the Tech panel button is yellow or grey the judge is not connected. When green is connected and ready to start the competition.

Judge 2 🍰 Tecl	ch Panel 🖧	Judge 2 🛛 👗	Tech Panel 🏻 🏜
Figure 21 Tech panel not con	nnected	Figure 22	Tech panel connected

✓ On the Technical Panel check that all the judges and the Referee are connected (green icon), after selecting the event:

	Events (0)		A	rtistic World Ch	ampionship	<i>)5</i>
w Competition 😭	P Artistic World PRECISION & QUARTETS (6)					_
	171 Drecision - Seniores - Artistic World Championships		Date from: 08/09/20	)24 ~ <b>To</b> :	09/09/2024	/
Nour Event	2 [18] Quartets = Juniores = Artistic World Championships		Place: Rimini (l	TA)		
	[1] (iii) Quartets - Seniores - Artistic World Championships		Judges: 6	Discipline:	nline Free Ska	ting Ladies
	2 [27] Precision - Juniores - TEST EVENT Precision	C	ompetitors: 13	Category:	Juniores	
Event List	[3] [3] Quartets - Seniores - TEST QUARTETS		Front Manager	) (I des Mis		Cutter
	Artistic World Championships Inline (6)	898	Event Manager	Video Ma	nager 🔐	
Settings 1	Il Inline Free Skating Ladies - Juniores - Artistic World Championships		OIOSEPPINA BONOTTI			LISA PRIDAT
	2] Inline Free Skating Ladies - Seniores - Artistic World Championships	000	Specialist	Controller 🗰	Assistant	Data Operato
	[3] Inline Free Skating Men - Seniores - Artistic World Championships		JILL AINGE	NOEL SALAZAR	MARIA ALVARE	Z DENISE MAFFE
llart Review 🔣						
			Referee J	udae 1 🔛 Judae	2 📕 Judge	3 🔼 Judge 4
Video Screen 💻	22] Inline Free Skating Men - Seniores - Artistic World Championships		MICHAELSEEGER MOR	ENA SENESI FELIPE MATU	RANA TONY ALEXA	NDER MARIAN CASANA
	P					
Disconnected			T Judgo F	udao 6 Judao	7 Judgo	9 Judgo 9
			ROMINA RASO NUM	IO SANTOS	/ Judge	o Judge J
0x0x0x0x0x0x0x0x0x0x0x0x0x0x0						
8888888888888888			Short Program	View Desults	Delete	Posults
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	🖶 🏆 Artistic World Championships CoupleDance (3)		enereregiani			
0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-			Free Program	View Results	Delete	Results
	😭 [9] Couple Dance - Seniores - Artistic World Championships 🗸 🗸					
$\overline{\wedge}$	< <li>(9) Couple Dance - Seniores - Artistic World Championships</li> <li>+ =</li>					
Ô	Cill mio Drive\Pattinaggio\RollartSystem\GARE\2024\WSG2024 -					
	Couple Dance - Seniores - Artistic World Championships     G-NI mio Drive\Patlinaggio\RollartSystem\GARE\2024\WSG2024 -     Rimin\Rollart\vollartevents_end - Copia.s3db				Wo	ridSkate Rules 202
	(9) Couple Dance - Seniores - Artistic World Championships				Wo	ridSkate Rules 202

Figure 23 Tech panel - judges and referee connected

Before starting a segment, check the correct skating order of the skaters and the segment parameters:

QUARTETS CADETS	
Competitors: 3	Judges: 3
Next: CRSG	
Components Factor: 1	
Time of the program: 03:00	
	CTA DT
	STAKI

Figure 24 Check segment's parameters

#### 4.1 Using the data operator interface - quick guide

For all disciplines:

- 1. Enable/Disable CHECK: by clicking on CHECK button. The technical panel can decide to verify all the elements manually. CHECK button is enabled by default;
- 2. The data operator cannot insert a new element between two consecutive elements. He has to first delete existing elements by clicking on the "Delete Last" button until the required element position, then the new element can be inserted and any other required elements re-entered;
- 3. AVERAGE for the first skater: At the end of the first skater/couple/pair or group, the data operator can ask for the components to be sent by the judges, by clicking on AVERAGE button. Elements can be confirmed and updated once the average has been sent back to the judges. AVERAGE feature moved to the Referee Panel interface
- 4. **SKIP** button: use this button to skip to the next skater if the current skater is missing. It is not possible to come back to the previous skater once a skater has been confirmed as skipped
- 5. **PAUSE** button: use this button in case of interruption of the program (music issue or skater injury)

Figure 1 RollArt layout	. 5
Figure 2 Control Panel's Network and Sharing Center	. 6
Figure 3 Control Panel's network adapter properties	. 6
Figure 4 IPv4 Properties. Setting manual IP	. 7
Figure 5 Setup TechPanel - step 1	. 8
Figure 6 Setup TechPanel - Choose Yes	. 8
Figure 7 Setup TechPanel - step 2	. 9
Figure 8 Setup TechPanel - step 3	. 9
Figure 9 Setup TechPanel - completing setup	10
Figure 10 ODBC User DSN - check rollerjudge	10
Figure 11 ODBC User DSN - check rollerjudge path	11
Figure 12 Setup Judge & Referee Panel - step 1	11
Figure 13 Setup Judge Panel - step 2	12
Figure 14 Setup Judge Panel - step 3	12
Figure 15 Setup Judge Panel - step 4	13
Figure 16 Change default values	13
Figure 17 PC Setup - power management	14
Figure 18 PC Setup - lid operation	14
Figure 19 Preview display score	16
Figure 20 Tech Panel Splash screen	16
Figure 21 Tech panel not connected Figure 22 Tech panel connected	17
Figure 23 Tech panel - judges and referee connected	17
Figure 24 Check segment's parameters	17