Indoor Fixed LED Screen Installation Manual

Soft Connection Cabinet Version

Document rule: All items shown in red are fields to be filled manually for the specific project before release.

Item	Information
Project name	**[Fill in project name]**
Customer / site	**[Fill in customer name and site address]**
Pixel pitch	**[Fill in pixel pitch]**
Screen size	**[Fill in width x height, cabinet quantity, and total area]**
Control system	**[Fill in processor / sending card / media player model]**
Power standard	**[Fill in AC input voltage and distribution method]**
Prepared by	**[Fill in name]**
Document date	**[Fill in date]**

1. Scope and Product Reference

This manual is for SeamLux indoor fixed LED screen installation with soft cable / flexible harness connection. It covers cabinet handling, fixed installation, combined power and signal wiring review, processor/computer connection, software handover space, maintenance, and acceptance checks.

Reference item	Value
Product image source	Desktop/SeamLux product image and indoor fixed soft-connection cabinet reference
Applicable installation	SeamLux indoor fixed LED screen installation with soft cable / flexible harness connection
Installation environment	**[Fill in indoor / outdoor site conditions]**
Final drawing package	**[Fill in drawing number or version]**

Before installation: Confirm the final cabinet layout, steel structure drawing, power distribution drawing, signal topology, receiving-card file, and spare-parts list before unpacking the screen.

2. Safety and Handling

- Use trained installers only. Wear gloves, safety shoes, and fall protection when working at height.
- Disconnect AC power before opening any rear cover, power box, or control box.
- Keep power cables and signal cables physically separated. Do not tie AC power and RJ45 signal into one tight bundle.
- Do not press, drag, or twist the LED display surface. Check damaged cabinets, modules, connectors, locks, or cables with photos.

Tool / material	Purpose
Laser level / tape measure	Check frame level, cabinet position, and screen size.
Hex key / screwdriver set	Tighten locks, brackets, rear covers, and accessories.
Multimeter / clamp meter	Check AC input, grounding, continuity, branch current, and short circuits.
Laptop and spare parts	Load final configuration and prepare **[Fill in spare-parts quantity]**.

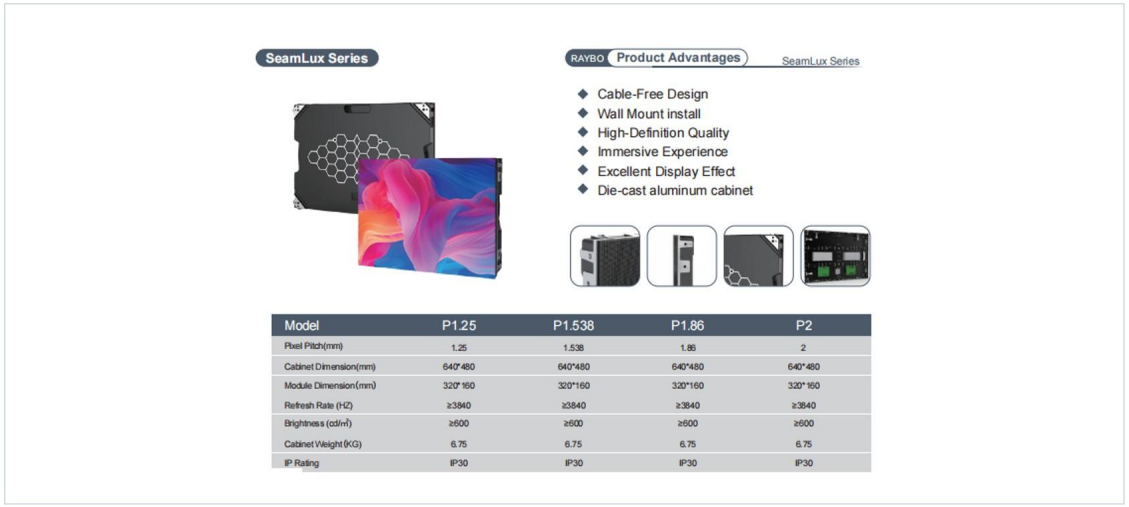
3. Packing and Pre-Installation Check

Step	Action
1	Check outer packaging for dents, water marks, or broken seals before signing the delivery record.
2	Open cartons or flight cases carefully and keep all labels for project traceability.
3	Compare the cabinet quantity, modules, power cables, signal cables, mounting accessories, spare parts, and control equipment against the packing list.
4	Power-on test a sample cabinet when the site condition allows, then label any abnormal cabinet for service.
5	Confirm the connection type is seamlux soft connection; do not mix cabinets or accessories from another version unless Raybo confirms compatibility.

Check item	Result
Cabinet quantity	**[Fill in checked quantity]**
Module quantity	**[Fill in checked quantity]**
Power cables	**[Fill in checked quantity and cable length]**
Signal cables	**[Fill in checked quantity and cable length]**
Mounting accessories	**[Fill in checked quantity]**
Processor / sender / media player	**[Fill in model and serial number]**
12 V pin lead / 12 V long power lead	**[Fill in checked quantity]**
Power harness	**[Fill in checked quantity]**
Screen ribbon cable	**[Fill in checked quantity]**

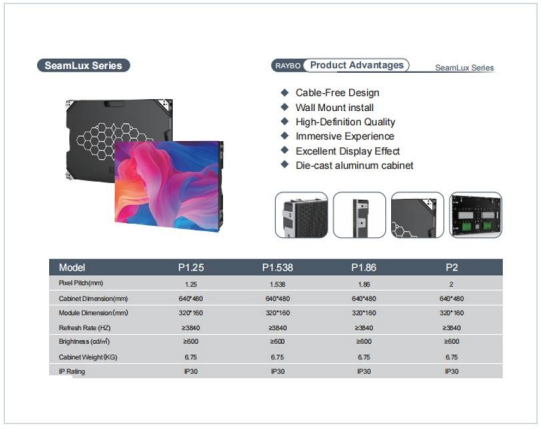
4. Product Overview

SeamLux Indoor Fixed Soft Connection Product Overview



SeamLux product overview and specification reference.

SeamLux Product and Indoor Soft Cabinet Reference



SeamLux product specification reference



Indoor fixed soft-connection rear cabinet reference

SeamLux product image with indoor fixed soft-connection rear cabinet reference.

4A. Cabinet Back Panel and Cable Reference

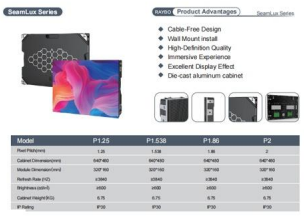
SeamLux Indoor Soft Connection Product and Detail Reference



Front display and cabinet appearance



Rear soft-connection cabinet reference



SeamLux product overview and specification



Corner and side detail



Side connector detail



Cabinet rear detail



Receiver-card area

SeamLux indoor fixed soft-connection product, cabinet rear, and detail reference.

Indoor Soft Connection Cable and Harness Reference



Short network cable
Ordinary RJ45 network cable



Long network cable
Ordinary RJ45 network cable



12 V pin lead
Short DC power connection



12 V long power lead
Long DC power connection



Power harness
Cabinet/module power distribution



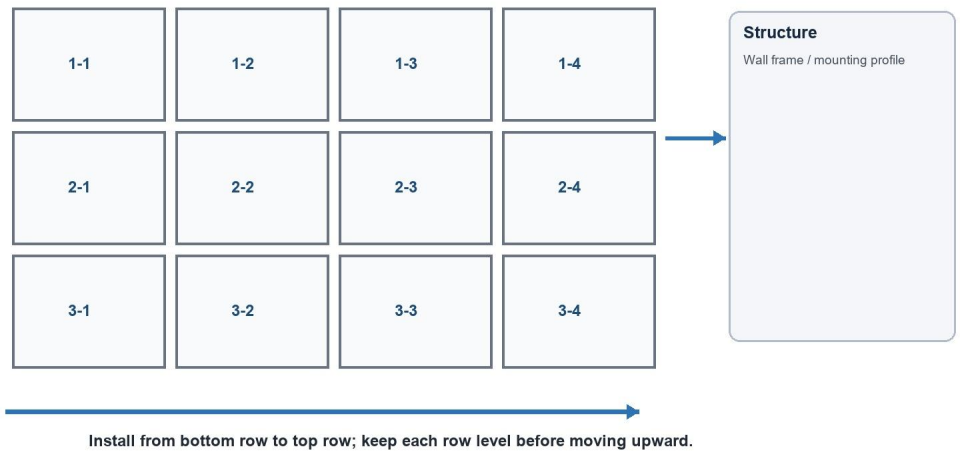
Screen ribbon cable
Flat screen/data ribbon

Soft-connection cable rule
Use ordinary RJ45 network cables for signal; use the 12 V pin lead, 12 V long power lead, power harness, and screen ribbon cable for the indoor soft-connection cabinet.

Indoor soft-connection cable set: ordinary short/long network cables, 12 V pin lead, 12 V long power lead, power harness, and screen ribbon cable.

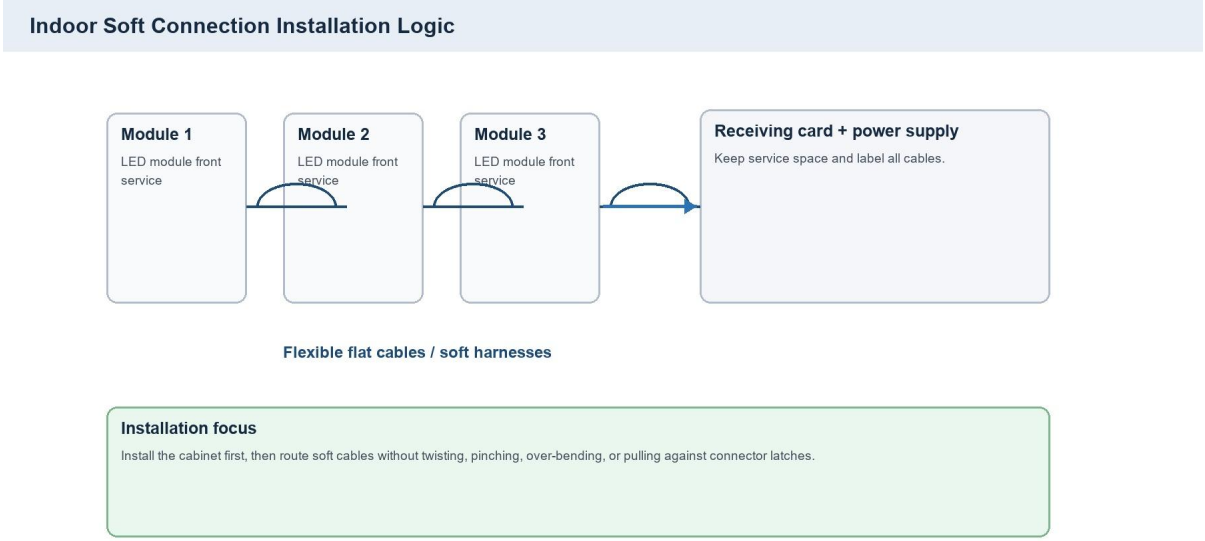
5. Cabinet Installation

Indoor Soft Connection Mounting Sequence



Install cabinets from bottom to top and keep each row level before continuing.

Step	Action
1	Install the supporting frame or mounting profile according to the approved drawing.
2	Place the first bottom-row cabinet and adjust level, verticality, and front flatness.
3	Add adjacent cabinets row by row. Tighten side locks or screws only after the front surface is aligned.
4	Route soft cables with enough bend radius. Do not pull, pinch, fold, or twist flat cables.
5	Connect 12 V DC leads, power harness, screen ribbon cable, and signal cables only after the cabinet structure is fixed and visually checked.
6	Install modules, check seams, and test all soft cable connections before final closeout.



Connection-specific installation logic.

Soft connection caution: Soft cables and ribbon cables are flexible but fragile. A damaged latch, reversed cable, or over-bent cable may cause missing rows, color errors, or intermittent signal.

6. Power and Signal Cable Connection

Power cable connection and signal cable connection are treated as one installation step. The final drawing must show both routes on the same page, while still keeping AC power and RJ45 signal physically separated on site.

Indoor Soft Connection Cable and Harness Reference



Short network cable
Ordinary RJ45 network cable



Long network cable
Ordinary RJ45 network cable



12 V pin lead
Short DC power connection



12 V long power lead
Long DC power connection



Power harness
Cabinet/module power distribution



Screen ribbon cable
Flat screen/data ribbon

Soft-connection cable rule
Use ordinary RJ45 network cables for signal; use the 12 V pin lead, 12 V long power lead, power harness, and screen ribbon cable for the indoor soft-connection cabinet.

Indoor soft-connection power, signal, and ribbon-cable reference.

Power and Signal Cable Connection

Combined project drawing area
Insert the final single drawing showing both AC power routing and RJ45 signal routing for this screen.

Reserved Blank Area

Keep power and signal separated in the field, but place both routes on one review drawing.

Reserved space for the final combined power and signal routing drawing.

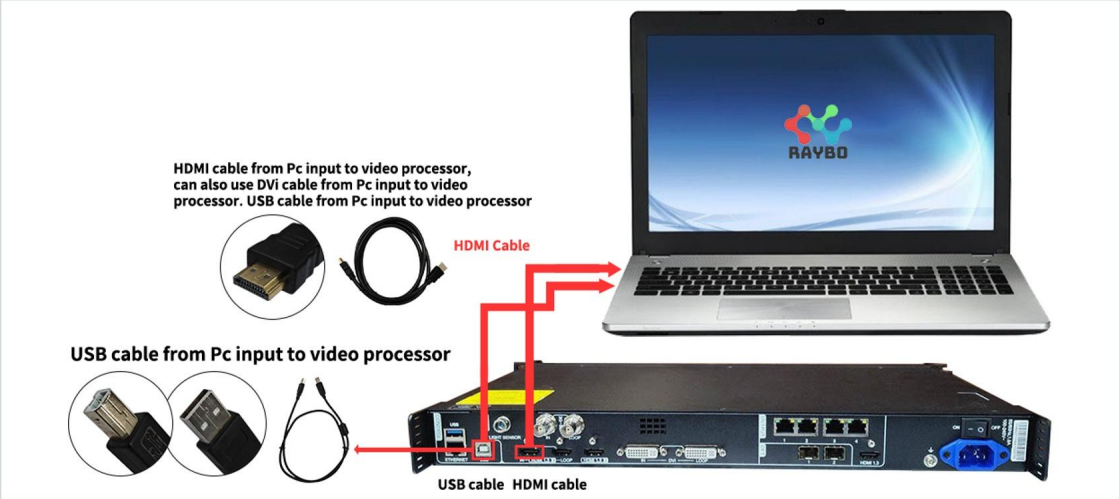
Power and signal wiring must be separated in the field. Confirm final parameters before commissioning.

Connection item	Requirement
AC input	**[Fill in 110 V / 220 V input and distribution box information]**
Power cascade rule	**[Fill in maximum cabinets per AC branch according to project voltage and cabinet power]**
Signal topology	**[Fill in sender output, RJ45 route, backup route, and cabinet order]**
Single RJ45 output loading	Keep one RJ45 output at or below 650,000 pixels unless the controller specification confirms otherwise.
Cable separation	Do not route AC power and RJ45 signal together in the same tight bundle.
Grounding	**[Fill in grounding method and measured resistance]**
12 V DC leads	Use the 12 V pin lead and 12 V long power lead shown in the soft-connection cable reference; do not replace them with ordinary AC power cables.
Flat ribbon cables	Route the power harness and screen ribbon cable without folding, over-bending, or pinching them under module edges.

Field sequence: Confirm the final drawing, route and label both cable types, then check voltage, grounding, indicator lights, and a simple image pattern before full commissioning.

7. Processor, Computer, and Software Setup

Processor and Computer Connection Reference



Processor and computer connection reference.

Control item	Project value
Processor / media player model	**[Fill in model]**
Computer connection	**[Fill in HDMI / DVI / DP / USB / LAN connection method]**
Sender output used	**[Fill in RJ45 output number and screen area]**
Receiving card file	**[Fill in RCFGX / CON file name and version]**
Screen resolution	**[Fill in width x height pixels]**

NovaLCT / Control Software Operation Guide

Reserved Blank Area

Insert project-specific NovaLCT, Colorlight, or media-player operation screenshots and parameters here.

8. Maintenance and Module Service

- Take photos before removing any module, cable, receiving card, power supply, or rear cover.
- Label the original cable position before unplugging it.
- Replace modules or control parts with the same model and calibration batch when possible.
- After replacement, test black, red, green, blue, white, grayscale, and video playback.

Symptom	Check first
No power on one cabinet	AC branch, power plug, power supply, fuse, internal power cable.
No signal on one cabinet	RJ45 input/output order, receiving card indicator, loose signal cable.
Wrong image order	Cabinet mapping, sender output order, screen configuration file.
Color difference	Module batch, calibration file, brightness/chroma setting.
Visible seam	Cabinet alignment, connector seating, frame flatness, lock tightness.

9. Final Acceptance Checklist

Acceptance item	Result
Structure level and flatness checked	**[Pass / Fail / Notes]**
Cabinet order matches drawing	**[Pass / Fail / Notes]**
All locks and brackets tightened	**[Pass / Fail / Notes]**
Power branches labeled and measured	**[Pass / Fail / Notes]**
Signal route and backup route tested	**[Pass / Fail / Notes]**
Processor output and screen resolution confirmed	**[Pass / Fail / Notes]**
Full-screen test patterns passed	**[Pass / Fail / Notes]**
Spare parts and documents handed over	**[Pass / Fail / Notes]**

10. Contact Support

Support item	Contact / information

Sales manager	**[Fill in name]**
Technical support	**[Fill in WhatsApp / email / phone]**
Remote support software	**[Fill in ToDesk / AnyDesk / TeamViewer ID]**
Project file archive	**[Fill in cloud folder or local file path]**