

OPX-024 by Opalinski Design House

The Vessel Electronics Package

Audio, video, control, networking and connectivity as one scope, one lead time and one point of contact, in three defined tiers. With what we need from you and by when, as a dated list for your build schedule.

Written for

Shipyards, builders and build managers, for a new build or a major refit, from first fix through commissioning and handover.

Time

Fifteen minutes at contract, then kept beside the build schedule.

Inside

- Three tiers across five systems
- What we need from you, by stage
- The interface matrix
- Typical long lead ranges

How to use it

Start with the tier table: pick the level the vessel is being sold at, and the count follows from the general arrangement rather than from a conversation. Next is the information exchange, the dates we need from you and the dates you get things from us. Then the interface matrix, which is the document that actually prevents the arguments.

One scope instead of four suppliers

Entertainment, automation, audio, video, networking and connectivity are bought separately on most vessels, and the gaps between them become yours.

Who powers the rack. Who pulls the cable for the antenna. Whose fault it is that the screen works and the sound does not. Under one contract those gaps do not exist, because one party is answerable for all five.

What the yard gets. One date to hold, one contact to call, one set of drawings to coordinate, one test plan to witness, and one company carrying the interface risk between the five systems.

Covers

Five disciplines under one contract, one set of drawings and one test plan.

Suits

New build and major refit, from first fix through commissioning and handover.

Priced

Per vessel. The tier sets the level, the general arrangement sets the count.



Five systems, one set of drawings, one contract, from the sun deck down.

Three tiers

The tier sets the level of each system. Quantities come from the general arrangement. Every tier is delivered with the same drawings, the same test plan and the same documentation, because those are not an upgrade.

System	Core	Signature	Flagship
Automation and control	One platform, one interface. Lighting and shading in guest areas, keypads at room entry, portable control for the owner.	Lighting, shading and climate across the vessel, scenes per space, crew and guest interfaces separated.	Whole vessel automation with scenes by time of day and by mode, owner and guest profiles, and integration to the vessel's own alarms and monitoring where the builder allows it.
Audio	Architectural speakers in guest interiors and main deck exterior, one source per zone.	Full interior and exterior zoning including crew areas, matched pairs per space, independent levels and sources.	Reference listening in the main salon and owner's areas, full exterior coverage including sun deck and beach club, with acoustic treatment agreed with the interior designer.
Video and cinema	Marine rated displays in guest cabins and salon, shared sources, satellite and streaming.	Displays throughout including exterior rated positions, concealed mounting or lifts where the joinery allows, multi room distribution.	A dedicated screening space designed with the interior team, projection or large format display, calibrated picture and sound, with the same content available anywhere aboard.
Network	Managed switching, wireless through guest and crew areas, separated guest and vessel traffic.	Resilient switching, wireless designed per space rather than per deck, monitored remotely.	Dual path core, wireless designed to coverage levels agreed in writing, segregated guest, crew, owner and vessel networks, monitored around the clock.
Connectivity	One satellite service plus cellular, manual failover.	Satellite and cellular with automatic failover and usage control by network.	Multiple paths with automatic failover, priority rules by user group, and content cached aboard so the vessel is not dependent on the link for entertainment.

What is in every tier. Drawings issued to your revision, weight and heat schedules for the naval architect, containment and penetration requirements at first fix, a written test plan, witnessed commissioning, crew training, the full documentation pack, and remote support from handover.

What we need from you, and by when

Drop these into the build schedule as dated items. Each one has a consequence if it moves, and the consequence is always easier to manage early.

At contract

General arrangement, tier, and the vessel's intended use: private, charter or both. **If it moves:** everything downstream moves with it.

GA frozen

Deck plans with rack space allocated, and confirmation of who supplies power and extraction to it. **If it moves:** rack location becomes a joinery problem rather than a drawing.

Structure

Bulkhead and deck penetration schedule, and the structural engineer's position on backing for displays and antennas. **If it moves:** penetrations become repairs, and a repair needs approval.

Interior design frozen

Interior drawings at the revision we are to work to, including ceiling, joinery and finishes. **If it moves:** speaker, screen and keypad positions move, and each move is a drawing revision on both sides.

Before first fix

Access to run containment and cable while the structure is open, with the schedule for closing it. **If it moves:** cable is retrofitted, which is slower, more expensive and sometimes not possible.

The structure closes.

Second fix

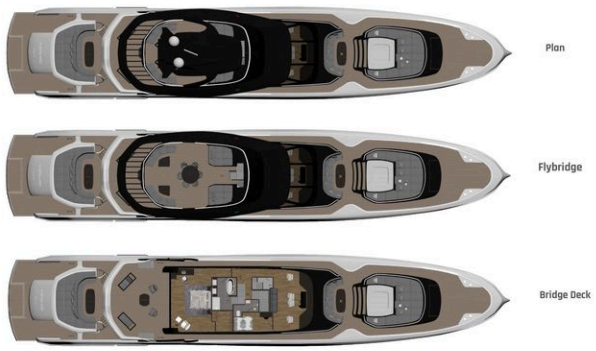
Joinery cut outs to our drawings, backing in place, and power available at the rack. **If it moves:** devices sit in boxes on site, and the commissioning window compresses.

Before commissioning

Stable power, a clean vessel, and the crew available for training. **If it moves:** commissioning is done twice, and the second time is at your cost or ours depending on the contract.

Sea trials

A place on the trials schedule and sign off of the witnessed test plan. **If it moves:** faults are found by the owner rather than by us.



The general arrangement sets the count

Pick the tier the vessel is being sold at, and the quantities follow from the deck plans rather than from a conversation.

Upper deck plans of the OPX-024, by Opalinski Design House.

What you get from us, and when

Concept	Rack location study, weight and heat estimate, power demand, antenna sightline study.
Design	Zone schedule, device positions on your interior drawings, containment and penetration requirements.
First fix	Cable schedule, containment drawings, backing details, a marked up set for the joinery shop.
Second fix	Rack layouts, cut out drawings, and the written test plan for witnessing.
Commissioning	Test results, crew training record, guest facing guide.
Handover	As built drawings, cable and address schedules, configuration files, credentials register, licence register, spares list.

The interface matrix

Agreed at contract, this is the document that settles the arguments before they happen. Mark each line against the trade that supplies it and the trade that installs it.

Item	Supply	Install	Test	Usual position
Containment and trunking				Yard supplies and installs to our drawings
Cable				We supply and install
Penetrations and seals				Yard, to our schedule
Backing for displays and speakers				Joinery, to our details
Rack power supply				Yard electrical
Rack extraction and cooling				HVAC, to our heat schedule
Joinery cut outs				Joinery, to our cut out drawings
Antenna mounts and deck reinforcement				Yard, to our weight and sightline study
Equipment				We supply, install, commission
Airtime contracts				Owner's side, arranged by us

Long lead items

Typical ranges, confirmed at order rather than quoted here, because they move with the market. What matters for the schedule is which items cannot be decided late.

Category	Typical lead	Why it cannot wait
Satellite hardware and domes	6 to 16 weeks	Sightlines, deck reinforcement and cable routes are structural decisions.
Screening room projection and screens	8 to 16 weeks	The space is built around the throw, the seating and the acoustics.
Marine rated and exterior displays	6 to 12 weeks	Sizes drive joinery openings and backing.
Lifts and concealed mechanisms	10 to 20 weeks	Structure, weight and service access are designed around them.
Control processors and keypads	4 to 8 weeks	Keypad positions are joinery, and finishes have their own lead time.
Speakers and amplification	4 to 10 weeks	Cut outs, depth and backing are joinery decisions.
Network hardware	2 to 8 weeks	Rack space and power are set at first fix.

How we work with a yard

What we commit to

- Working to your drawing revisions, not asking you to work to ours.
- One named contact who attends the build meetings you name, from the stage you name.
- Dates against your schedule, with long lead items ordered on confirmation rather than on hope.
- Weight, heat and power figures issued early enough to be useful to the naval architect.
- A written test plan before commissioning, witnessed by whoever you send.

What we ask for

- The dated list of what we need from you, agreed at contract rather than negotiated later.
- Access at first fix, and notice before anything is closed.
- One route for changes, in writing, with a defined process.
- A place on the sea trials schedule.
- Crew availability for training before handover, not on the day.



STEREO TYPES

How we work

Stereo Types designs, installs and supports the entertainment, automation and connectivity aboard luxury yachts, working alongside the yard, the naval architect and the interior designer from the first drawings through to delivery.

Send the general arrangement and the tier you are selling. We will come back with a zone schedule, a weight and heat estimate, the containment you need at first fix and the dates for your build schedule. It costs nothing, and it is useful even if the work goes elsewhere.

Send us the general arrangement →



With Opalinski Design House

Opalinski Design House is a yacht design and prototyping studio, founded by Łukasz Opaliński in 2007, working across exterior styling, interior design and naval architecture. The renderings in this guide are of their OPX-024, a 50 metre Fast Cruiser built around the patented Rotational Transom Beach Club.

We work beside them from the first drawings, so the technology is designed into the yacht rather than added to it.

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After handover
Remote support around the clock for vessels on a support plan, with service in port arranged where she lies.

