

Features of Shipboard UNICORN

UNIfied COmplex Radio aNtenna

Integrates and Downsizes the Antennae on the Top of the Mast

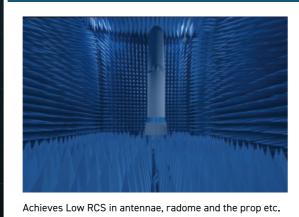


Installed the Detection Antenna on the Top



Able to detect radar waves and communication waves that are around quickly by relocating the TACAN on the bottom and installing the detection antenna on the top.

RCS Measure



With request, able to customize onboard antennae.

By interference, the optimal placement of existing antennae can be achieved.

Lightning Protection that Will Keep away from a Lighting Rod



A lighting protection strip that is installed on a surface of the radome, protects the antennae from a surge current when the lightning hits.

Radar Wave Band Omnidirectional Detection Antenna

Communication Wave Band Direction Search Antenna

Wi-Fi Band Antenna

LINK-16 Antenna

UHF Band T/R Antennae

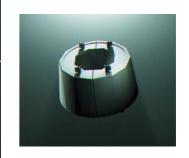
IFF Response Antenna

UHF Band/ VHF Band T/R Antenna

Omnidirectional

All antennae that will be installed securing full visibility and eliminates blind direction by installing on the top.

New Design of TACAN Antenna



The new design of TACAN antenna have been changed to a hollow shape, which improves the flexibility of antenna placement and attachment.

Easy replacement in case of module failure.

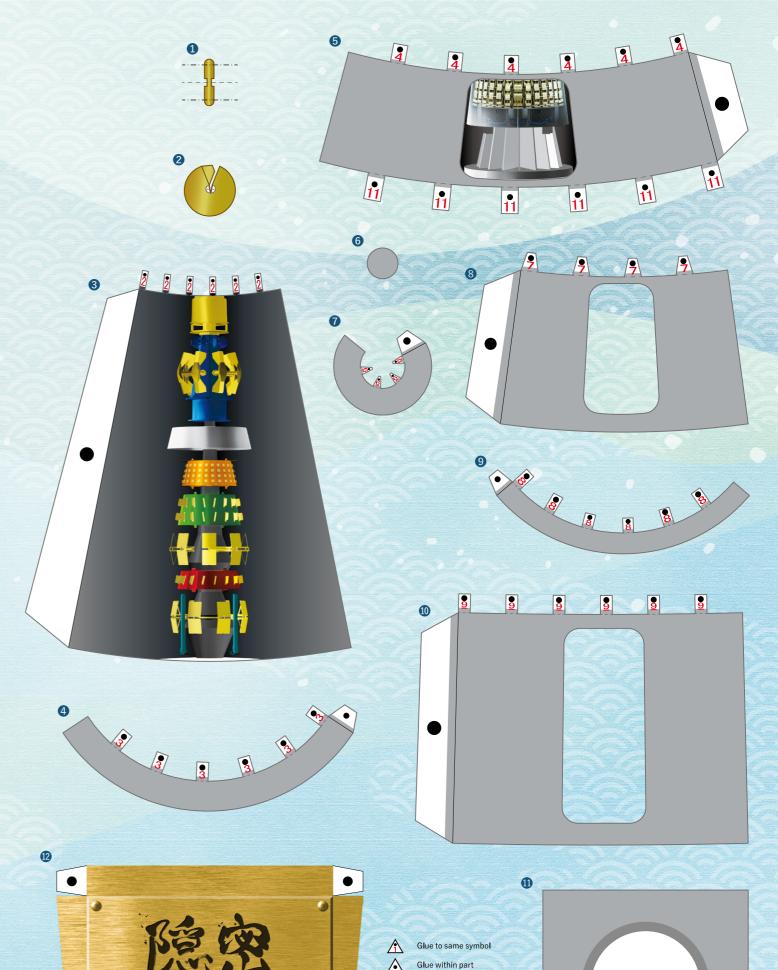




UNICORN & 30FFM ORIGINAL PAPER CRAFT

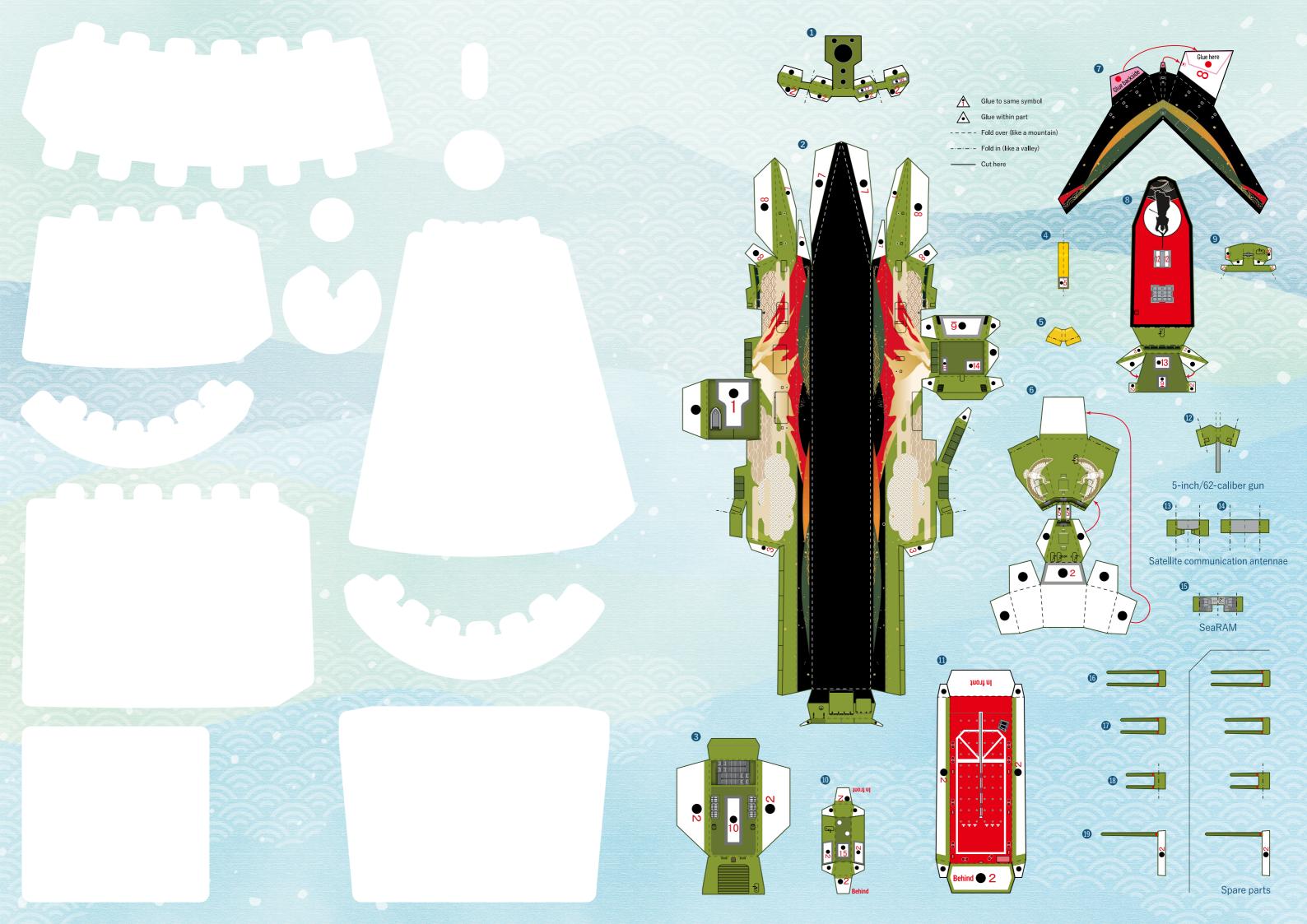


UNICORN: Completed Model, 1:52 Scale / 30FFM: Completed Model, 1:700 Scale

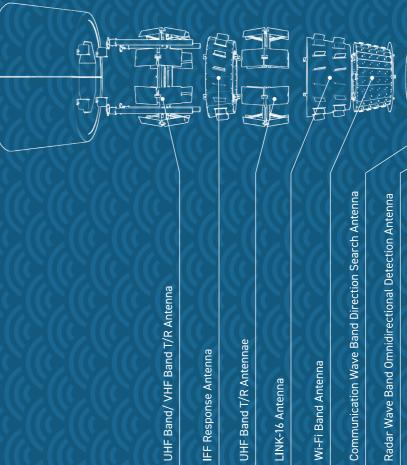


--- Fold over (like a mountain)

Samurai's Stealth Integrated Mast UNICORN on 30FFM







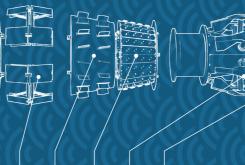
UHF Band/ VHF Band T/R Antenna

UHF Band T/R Antennae

LINK-16 Antenna

Wi-Fi Band Antenna

IFF Response Antenna



The other side of this page is a sea-motif paper mat for your UNICORN and 30FFM paper craft. Detach along the inner dotted line to use.

UNICORN HOW TO MAKE ORIGINAL PAPER CRAFT

Required tools

- Adhesive: Cemedine C, quick-drying wood glue, etc.
- Knife/scissors: 45-degree art knife recommended. Regular box cutter OK.
- Cutting mat: Use to cut parts out from paper with your cutting tool.
- Ruler: Use when cutting or tracing with a needle.
- Needle: Use to make creases to fold along.

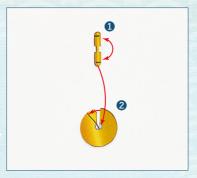
Use a file or other such tool to round off the end of the needle so that it does not cut the paper. You can also use an empty mechanical pencil or a dry ballpoint pen.

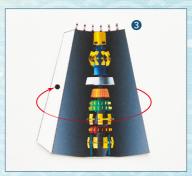




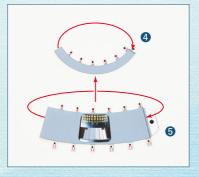
Before assembling, use a needle or other appropriate tool to trace creases to fold along.

Fold over (like a mountain) ----- Fold in (like a valley) -----

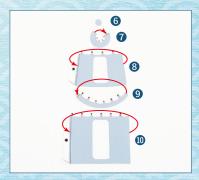


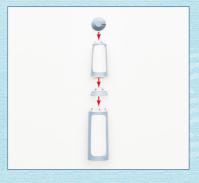


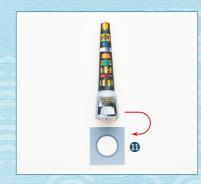












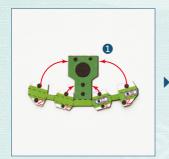


30FFM HOW TO MAKE ORIGINAL PAPER CRAFT

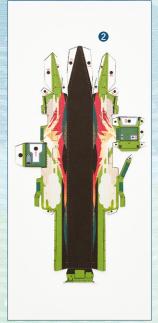
Before assembling, use a needle or other appropriate tool to trace creases to fold along.

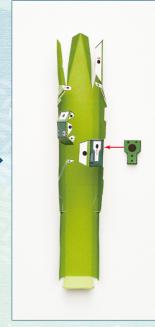
Fold over (like a mountain)
Fold in (like a valley)

Cut here



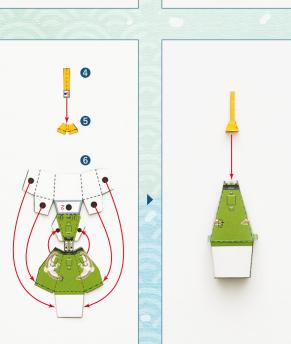


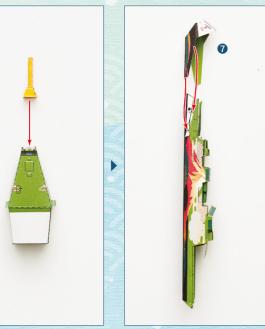






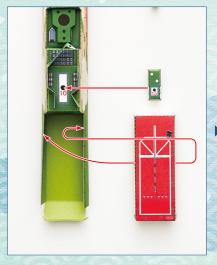


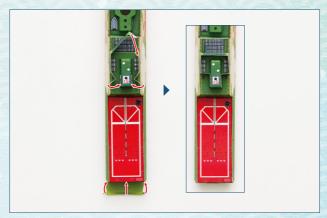


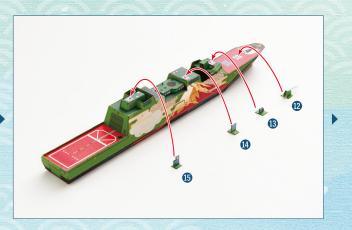




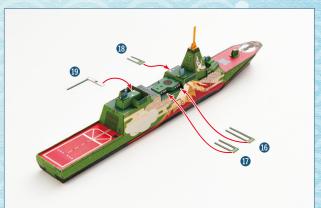


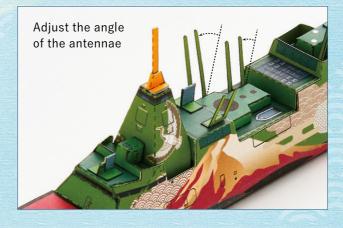














SEE ONMITSU

In the 2010s, the Japan Ministry of Defense was considering the concept for a new frigate, the FFM.

This vessel would achieve increased personnel efficiency,

versatility and advanced stealth. It would be cutting edge and avant-garde in its design.

However, JMOD had no definite plans for the antennae at that time.

No existing antenna designs would provide the FFM the necessary stealth.

Then, the developers began to pioneer one that had never been seen

before due to harnessing their passion. Inside an advanced stealth radome,

they arranged eight antennae in a way that avoids radio interference.

Further, they took the TACAN from the top of the mast and moved it to the bottom.

This allowed them to place the ESM in the newly created space at the top, significantly increasing its range to detect threats.



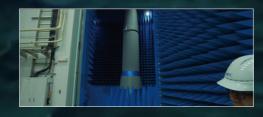
QR code
will direct you to
the ATLA official channel
on YouTube.

















With its unprecedented stealth, the UNICORN embarks on the high seas.





