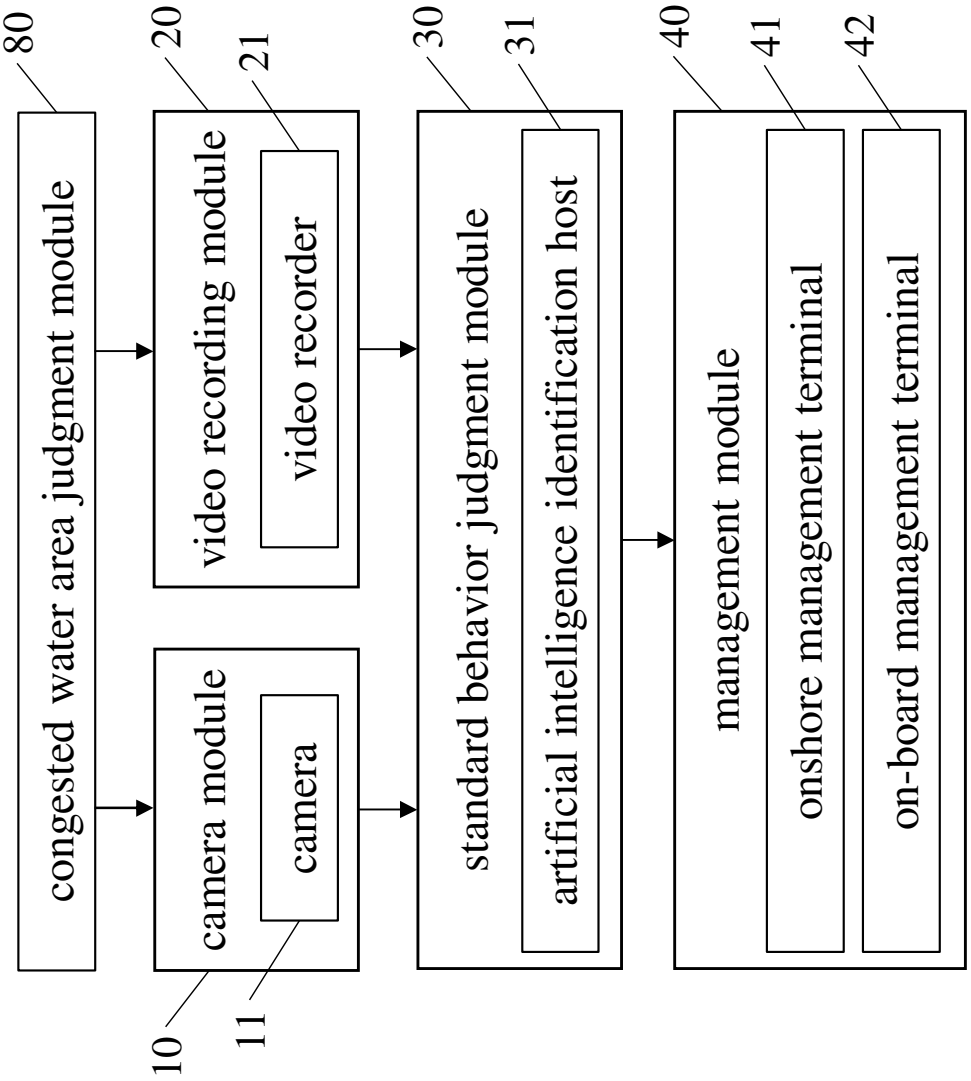
80
congested water area judgment module
20
video recording module
21
video recorder
30
standard behavior judgment module
31
artificial intelligence identification host
40
management module
41
onshore management terminal
42
on-board management terminal
10
camera module
11
camera

FIG.1

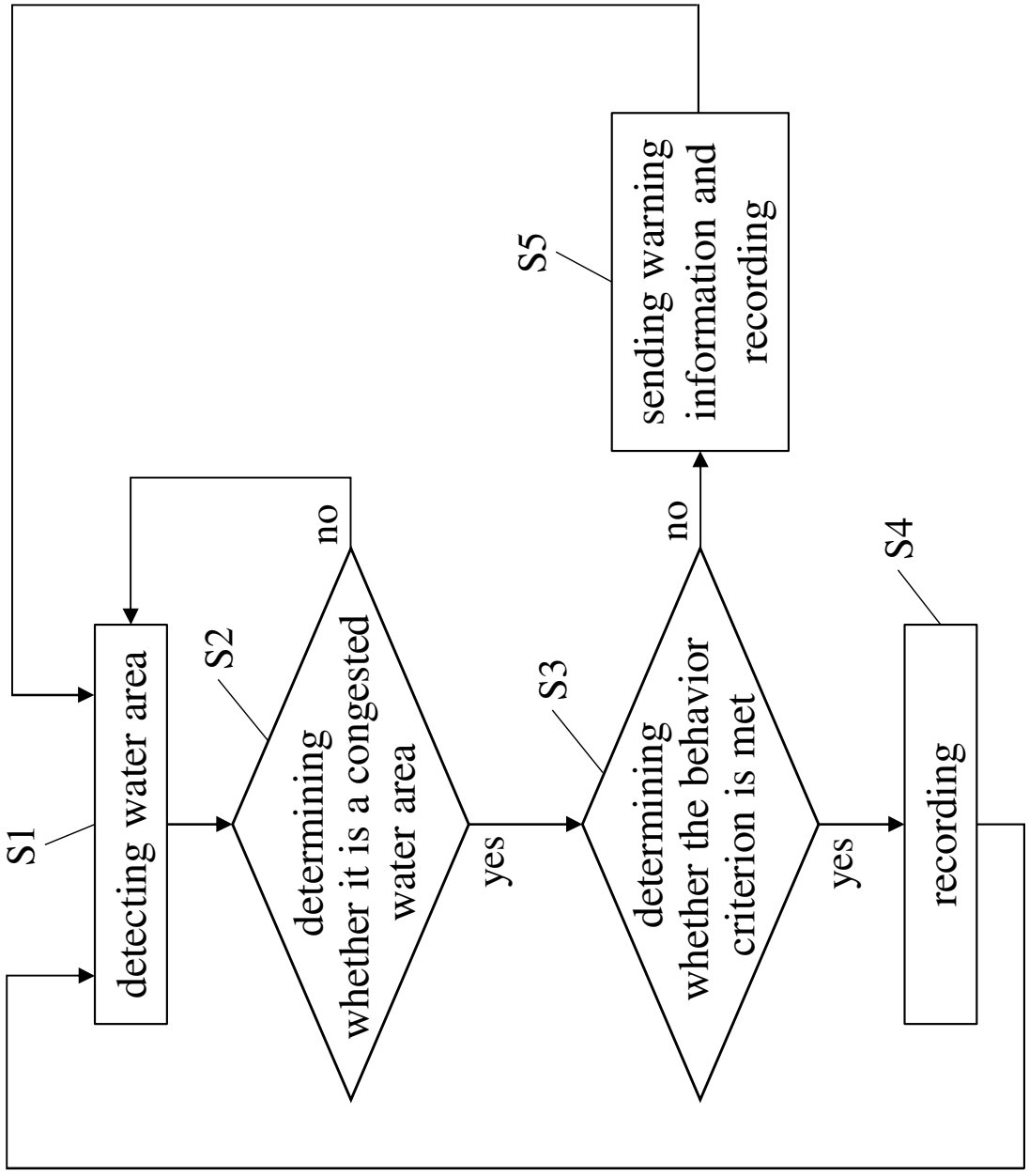
S1
detecting water area
S2
determining whether it is a congested water area
no
yes
S3
determining whether the behavior criterion is met
no
yes
S4
recording
S5
sending warning information and recording

FIG.2

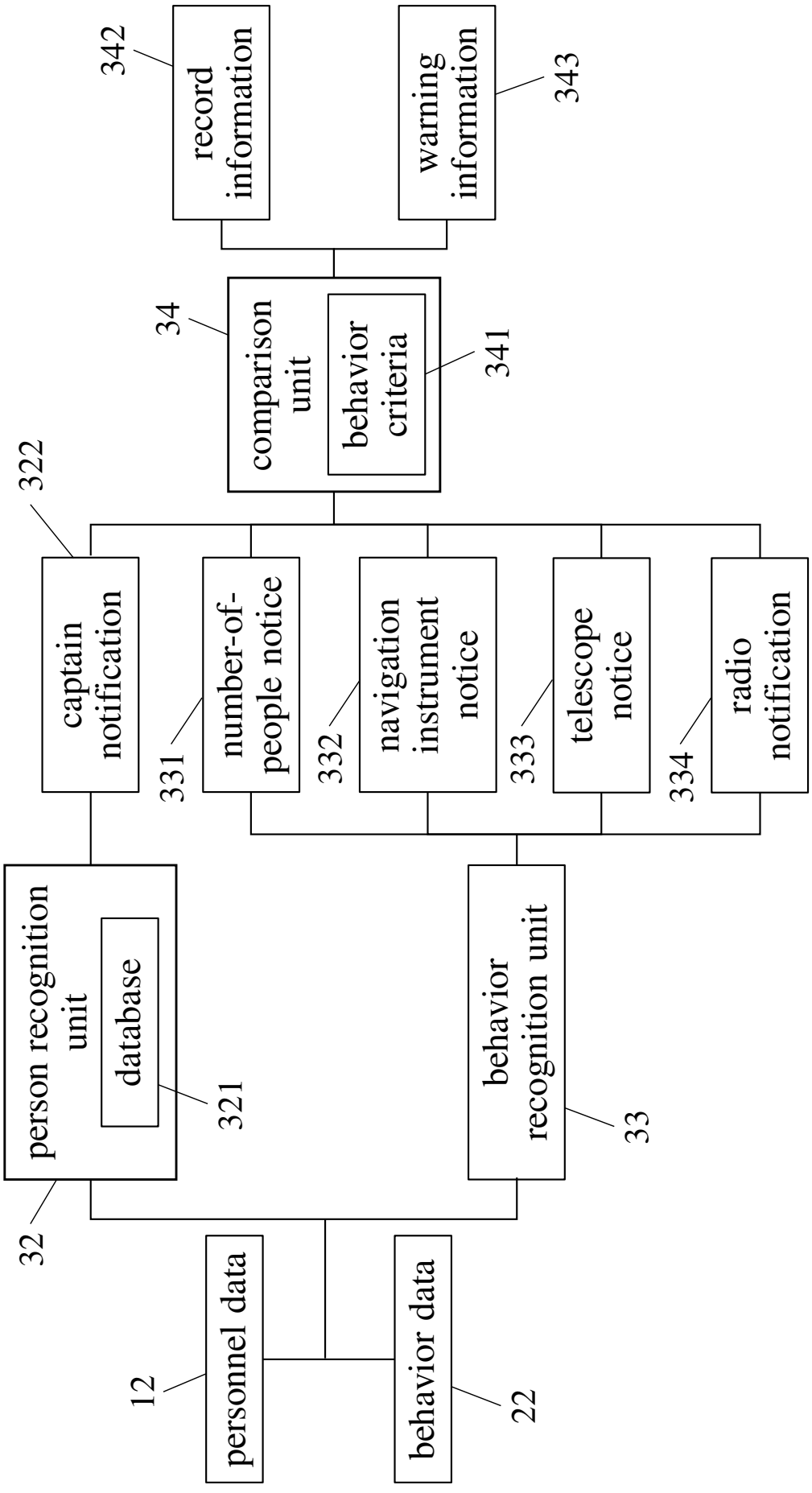
342
record information
343
warning information
34
comparison unit
behavior criteria
341
322
captain notification
331
number-of-people notice
332
navigation instrument notice
333
telescope notice
334
radio notification
person recognition unit
database
321
behavior recognition unit
33
32
12
personnel data
behavior data
22

FIG.3