



1
00:00:14,930 --> 00:00:11,660
we're going to talk about the 70

2
00:00:16,609 --> 00:00:14,940
millimeter camera system the other day

3
00:00:18,680 --> 00:00:16,619
we talked about 35 when we talked about

4
00:00:21,590 --> 00:00:18,690
how that is primarily designed for in

5
00:00:24,200 --> 00:00:21,600
cabin flash photography occasionally

6
00:00:27,370 --> 00:00:24,210
we'll shoot things out the windows or

7
00:00:31,400 --> 00:00:27,380
EPA with 35 but the 70 is designed

8
00:00:35,389 --> 00:00:31,410
primarily for taking photographs out the

9
00:00:38,650 --> 00:00:35,399
windows and it's a wonderful camera

10
00:00:42,889 --> 00:00:38,660
system we're going to talk about the

11
00:00:45,170 --> 00:00:42,899
displays and controls first and they

12
00:00:46,880 --> 00:00:45,180
will talk about its operation and then

13
00:00:49,420 --> 00:00:46,890

we'll talk about the spot meter which is

14

00:00:52,010 --> 00:00:49,430

the way that we determine exposures

15

00:00:54,080 --> 00:00:52,020

because this is a purely manual camera

16

00:00:55,939 --> 00:00:54,090

there's nothing automatic about it

17

00:00:57,500 --> 00:00:55,949

except for the fact that it has the

18

00:01:00,639 --> 00:00:57,510

motor driving advances the film

19

00:01:03,920 --> 00:01:00,649

automatically let's start with the

20

00:01:07,980 --> 00:01:03,930

displacement controls on the very front

21

00:01:17,050 --> 00:01:12,520

the button right here is the shutter I'm

22

00:01:18,760 --> 00:01:17,060

sorry the lens release button and this

23

00:01:21,730 --> 00:01:18,770

has to be depressed in order to remove a

24

00:01:22,900 --> 00:01:21,740

lens when we're putting a lens back on

25

00:01:25,030 --> 00:01:22,910

though we'll make sure that we don't

26
00:01:27,190 --> 00:01:25,040
depress this but we want to be able to

27
00:01:30,550 --> 00:01:27,200
hear and feel the click to make sure

28
00:01:32,800 --> 00:01:30,560
that is the lens is installed all the

29
00:01:35,680 --> 00:01:32,810
way the shutter release push button is

30
00:01:40,220 --> 00:01:35,690
right here is an oversized button this

31
00:01:42,200 --> 00:01:40,230
was a NASA suggestion so that

32
00:01:46,610 --> 00:01:42,210
when the guys were wearing gloves if

33
00:01:48,910 --> 00:01:46,620
this would be used outdoors then a large

34
00:01:52,880 --> 00:01:48,920
size Club finger and depress the button

35
00:01:55,820 --> 00:01:52,890
on the right side of the camera body is

36
00:01:58,100 --> 00:01:55,830
the mode selector switch me back up a

37
00:02:01,520 --> 00:01:58,110
second in that position if it's not in

38
00:02:05,570 --> 00:02:01,530

that position then the camera has not

39

00:02:08,330 --> 00:02:05,580

finished a full cycle and refers to

40

00:02:10,910 --> 00:02:08,340

malfunction procedures it means that

41

00:02:12,830 --> 00:02:10,920

either the batteries have died or there

42

00:02:14,930 --> 00:02:12,840

is a jam in magazine it's not allowing

43

00:02:17,030 --> 00:02:14,940

the film to advance and therefore is

44

00:02:21,110 --> 00:02:17,040

jamming and not letting the camera

45

00:02:23,420 --> 00:02:21,120

knishes full cycle turn a module on when

46

00:02:25,730 --> 00:02:23,430

you first install a magazine don't turn

47

00:02:27,690 --> 00:02:25,740

it off until after the whole thing's

48

00:02:29,339 --> 00:02:27,700

been shot

49

00:02:31,440 --> 00:02:29,349

of course if you have a problem with the

50

00:02:33,800 --> 00:02:31,450

mag you're going to take off and

51
00:02:37,230 --> 00:02:33,810
certainly you turn off the data man

52
00:02:41,699 --> 00:02:37,240
data module and you note that this is a

53
00:02:44,510 --> 00:02:41,709
bad magazine if you have a problem where

54
00:02:48,350 --> 00:02:44,520
you do get a red light for some reason

55
00:02:51,449 --> 00:02:48,360
go ahead and take this module off and

56
00:02:54,330 --> 00:02:51,459
take a modulo of another magazine that

57
00:03:00,690 --> 00:02:54,340
you've already exposed trade out modules

58
00:03:05,190 --> 00:03:00,700
and even though the frame number

59
00:03:07,150 --> 00:03:05,200
magazine number will be wrong the GMT

60
00:03:10,640 --> 00:03:07,160
will still be correct

61
00:03:13,790 --> 00:03:10,650
should you turn that off leave it on

62
00:03:17,630 --> 00:03:13,800
edge and when you transfer magazine on

63
00:03:22,000 --> 00:03:17,640

that won't make any difference you can

64

00:03:25,190 --> 00:03:22,010

transfer it you can turn it off anytime

65

00:03:27,230 --> 00:03:25,200

but our concern is that if you turn it

66

00:03:31,530 --> 00:03:27,240

off forget to turn it back on you may

67

00:03:38,399 --> 00:03:35,009

bring it up and I recommend using the

68

00:03:40,740 --> 00:03:38,409

latch back here in the bag rather than

69

00:03:43,610 --> 00:03:40,750

putting additional wear and tear on the

70

00:03:46,220 --> 00:03:43,620

camera by forcing that they're like that

71

00:03:50,820 --> 00:03:46,230

and all Wiggly to make sure it is on

72

00:03:50,830 --> 00:03:54,450

kind

73

00:03:58,950 --> 00:03:55,980

and you're going to shoot make sure that

74

00:04:01,560 --> 00:03:58,960

you pulled marks life now you cannot get

75

00:04:03,950 --> 00:04:01,570

the banking off because it lives are the

76

00:04:11,580 --> 00:04:03,960

darkslides not installed the dark slide

77

00:06:09,719 --> 00:04:13,740

you can't install the dark slide either

78

00:06:09,729 --> 00:06:33,430

No

79

00:06:33,440 --> 00:06:36,679

probably

80

00:06:36,689 --> 00:06:40,870

the checklist

81

00:06:48,040 --> 00:06:45,130

few new items and we'll just start here

82

00:06:55,510 --> 00:06:51,580

pretty much everything is the same in

83

00:06:59,409 --> 00:06:55,520

terms of the airlock and lockers and

84

00:07:03,070 --> 00:06:59,419

four compartments the right now there's

85

00:07:06,550 --> 00:07:03,080

a Mar mid-deck accommodations rack there

86

00:07:11,910 --> 00:07:06,560

where the galley is normally and this is

87

00:07:21,190 --> 00:07:17,560

the hatch over there ms3 no longer sits

88

00:07:22,510 --> 00:07:21,200

by the side has there's a couple things

89

00:07:25,320 --> 00:07:22,520

that are different on the flight deck

90

00:07:28,960 --> 00:07:25,330

that we'll look at when we get up there

91

00:07:31,030 --> 00:07:28,970

anything different in storage no the

92

00:07:33,940 --> 00:07:31,040

locker trays and all that kind of thing

93

00:07:37,750 --> 00:07:33,950

works the same way the floor

94

00:07:39,160 --> 00:07:37,760

compartments are all same you don't

95

00:07:44,410 --> 00:07:39,170

think it's going to change is where your

96

00:07:46,150 --> 00:07:44,420

for your seats and treadmill attached we

97

00:07:48,400 --> 00:07:46,160

don't have as much volume over here as

98

00:07:50,570 --> 00:07:48,410

use as it looks like because of sleep

99

00:07:52,949 --> 00:07:50,580

station

100

00:07:55,439 --> 00:07:52,959

storage is still going to be cramped in

101
00:08:00,809 --> 00:07:55,449
terms of stowage space for some man crew

102
00:08:04,350 --> 00:08:00,819
for a week ty you got suits know you can

103
00:08:07,649 --> 00:08:04,360
and so that makes it even worse although

104
00:08:13,019 --> 00:08:07,659
it looks like we might have crashed no

105
00:08:15,329 --> 00:08:13,029
kidding new DTF and there's a new will

106
00:08:18,629 --> 00:08:15,339
see this tomorrow but there's a new type

107
00:08:20,699 --> 00:08:18,639
of beverage container it goes along with

108
00:08:30,100 --> 00:08:20,709
that trash compactor the old ones will

109
00:08:35,260 --> 00:08:32,200
well it the square ones will still be on

110
00:08:38,500 --> 00:08:35,270
board but but their starting five mix of

111
00:08:42,250 --> 00:08:38,510
these new ones and the old ones and the

112
00:08:44,830 --> 00:08:42,260
new ones are compactable talk about the

113
00:08:52,530 --> 00:08:44,840

flight data file now start off with

114

00:08:55,840 --> 00:08:52,540

index and I need to add a sheet to this

115

00:08:57,010 --> 00:08:55,850

it's your name procedure procedure watch

116

00:08:59,560 --> 00:08:57,020

but there's also a few little extras

117

00:09:01,600 --> 00:08:59,570

that are considered flight data file are

118

00:09:04,150 --> 00:09:01,610

managed by the flight data file people

119

00:09:06,160 --> 00:09:04,160

and and they're considered the flight

120

00:09:11,730 --> 00:09:06,170

data file and that's things like the

121

00:09:14,980 --> 00:09:11,740

pens and writing instruments book clamps

122

00:09:18,580 --> 00:09:14,990

the tethers that restraint books in

123

00:09:23,290 --> 00:09:18,590

place those things are all this parka

124

00:09:26,380 --> 00:09:23,300

find a phone now this is uh this is some

125

00:09:28,540 --> 00:09:26,390

real pro recognize it's a little orbit

126
00:09:30,850 --> 00:09:28,550
map and they still fly this although its

127
00:09:33,580 --> 00:09:30,860
uses its losing its utility because of

128
00:09:37,720 --> 00:09:33,590
the spot shows you a display that

129
00:09:41,610 --> 00:09:37,730
includes this and a lot more so this is

130
00:09:45,130 --> 00:09:41,620
still on the inventory though there's a

131
00:09:47,770 --> 00:09:45,140
mid dec cue cards kit on your second

132
00:09:49,480 --> 00:09:47,780
your first page your handout gives you a

133
00:09:52,360 --> 00:09:49,490
list of what kinds of things are

134
00:09:56,500 --> 00:09:52,370
typically found in in the mid-deck

135
00:09:58,270 --> 00:09:56,510
flight data file the mid-deck you cards

136
00:10:01,710 --> 00:09:58,280
these are things for the mid-deck

137
00:10:12,040 --> 00:10:01,720
systems like you'd expect there's a tags

138
00:10:23,540 --> 00:10:17,290

there's several cards for medical

139

00:10:25,810 --> 00:10:23,550

medical dsos blood velocity is ramping

140

00:10:33,820 --> 00:10:25,820

every one of those there you go electro

141

00:10:33,830 --> 00:10:38,050

teleprinter car

142

00:10:38,060 --> 00:10:42,340

hope we don't need that

143

00:10:50,050 --> 00:10:45,700

I still give positions where you put the

144

00:10:53,200 --> 00:10:50,060

Allen for yeah these are pretty much

145

00:10:54,639 --> 00:10:53,210

just referencing as you need to stick it

146

00:10:59,739 --> 00:10:54,649

work

147

00:11:02,920 --> 00:10:59,749

yeah the flight data file accessories

148

00:11:04,689 --> 00:11:02,930

bag and it's not full but because there

149

00:11:07,210 --> 00:11:04,699

would be a bunch of marking pins in here

150

00:11:10,600 --> 00:11:07,220

too but these are booked clamps who's a

151
00:11:13,480 --> 00:11:10,610
total different sizes of book clamps to

152
00:11:16,059 --> 00:11:13,490
hold hold a book open to a certain page

153
00:11:18,220 --> 00:11:16,069
it's ticket to the lock of pace because

154
00:11:20,259 --> 00:11:18,230
you're new you typically ends we use it

155
00:11:23,859 --> 00:11:20,269
all official we can show you how the

156
00:11:27,100 --> 00:11:23,869
world is that allows for larger books I

157
00:11:28,780 --> 00:11:27,110
think they have some of these it's yeah

158
00:11:34,600 --> 00:11:28,790
like you could do that looks much better

159
00:11:39,129 --> 00:11:34,610
the soil 0g this works fine and even you

160
00:11:45,280 --> 00:11:39,139
can even even do it with two pages two

161
00:11:50,519 --> 00:11:45,290
pages open battle that will work like

162
00:11:56,129 --> 00:11:53,160
the other items in the locker here

163
00:11:58,050 --> 00:11:56,139

course or your payload pile of

164

00:12:00,989 --> 00:11:58,060

checklists I've got it loaded with I I

165

00:12:03,689 --> 00:12:00,999

bunch of us checklist now you're you're

166

00:12:09,689 --> 00:12:03,699

familiar with with your own pelo

167

00:12:12,389 --> 00:12:09,699

checklists there's some a couple of

168

00:12:16,139 --> 00:12:12,399

photo TV checklists which I'm sure

169

00:12:19,009 --> 00:12:16,149

you'll be using for set up photo TV

170

00:12:21,509 --> 00:12:19,019

scenes to beam down and there's also

171

00:12:24,389 --> 00:12:21,519

camera information here on the manual

172

00:12:31,499 --> 00:12:24,399

cameras and malfunction camera

173

00:12:43,079 --> 00:12:31,509

malfunctions things like that go ahead

174

00:12:49,809 --> 00:12:45,249

they're no longer do we have to be

175

00:12:51,939 --> 00:12:49,819

clunky all right forward things we still

176

00:12:54,969 --> 00:12:51,949

have those for the overhead and half

177

00:12:58,839 --> 00:12:54,979

windows but the forward windows are his

178

00:13:00,849 --> 00:12:58,849

cloth covers that are rolled up in those

179

00:13:02,409 --> 00:13:00,859

containers and you just unroll them and

180

00:13:04,119 --> 00:13:02,419

stick them to the window with velcro

181

00:13:08,889 --> 00:13:04,129

there's nothing to put in the window

182

00:13:11,079 --> 00:13:08,899

shade and the EMI EMI and shields and a

183

00:13:14,229 --> 00:13:11,089

half shades and filters are those things

184

00:13:22,449 --> 00:13:14,239

are all still sick and the that bag is

185

00:13:32,979 --> 00:13:22,459

still down there roll it out and then it

186

00:13:35,079 --> 00:13:32,989

sticks to the window the two forward

187

00:13:36,639 --> 00:13:35,089

once windows three and four are hard to