

KENNEDY COUNTDOWN



1
00:00:04,470 --> 00:00:02,869
hi i'm nasa kennedy's basically odin and

2
00:00:10,310 --> 00:00:04,480
this is kennedy countdown

3
00:00:13,430 --> 00:00:10,320
[Music]

4
00:00:16,710 --> 00:00:13,440
nasa's imaging x-ray polarimetry

5
00:00:19,269 --> 00:00:16,720
explorer or xp arrived last month in

6
00:00:20,870 --> 00:00:19,279
florida workers completed pre-launch

7
00:00:23,429 --> 00:00:20,880
testing and then integrated the

8
00:00:24,550 --> 00:00:23,439
spacecraft with the spacex falcon 9

9
00:00:27,750 --> 00:00:24,560
rocket

10
00:00:29,509 --> 00:00:27,760
xp is the agency's first mission

11
00:00:31,669 --> 00:00:29,519
dedicated to measuring x-ray

12
00:00:34,389 --> 00:00:31,679
polarization which will allow

13
00:00:37,030 --> 00:00:34,399

astronomers to discover hidden details

14

00:00:40,389 --> 00:00:37,040

of some of the densest and most extreme

15

00:00:43,270 --> 00:00:40,399

cosmic sources including neutron stars

16

00:00:45,430 --> 00:00:43,280

black holes and supernova remnants

17

00:00:47,510 --> 00:00:45,440

liftoff is scheduled for december 9th

18

00:00:50,869 --> 00:00:47,520

from kennedy space center's launch

19

00:00:53,270 --> 00:00:50,879

complex 39a

20

00:00:57,189 --> 00:00:53,280

nasa's laser communications relay

21

00:00:59,029 --> 00:00:57,199

demonstration or lcrd moved another step

22

00:01:01,270 --> 00:00:59,039

closer to launch when a team of

23

00:01:03,510 --> 00:01:01,280

engineers attached the payload fairing

24

00:01:06,710 --> 00:01:03,520

containing its host satellite to a

25

00:01:09,830 --> 00:01:06,720

united launch alliance atlas 5 rocket

26

00:01:12,390 --> 00:01:09,840

the lcrd payload hosted on the

27

00:01:14,789 --> 00:01:12,400

department of defense space test program

28

00:01:17,190 --> 00:01:14,799

3 mission will demonstrate optical

29

00:01:20,149 --> 00:01:17,200

technology that could provide data rates

30

00:01:23,109 --> 00:01:20,159

up to 100 times better than commonly

31

00:01:25,670 --> 00:01:23,119

used radio frequency communications

32

00:01:27,590 --> 00:01:25,680

in the future laser technology may

33

00:01:30,390 --> 00:01:27,600

greatly increase bandwidth for

34

00:01:33,830 --> 00:01:30,400

communicating in space while reducing

35

00:01:38,069 --> 00:01:33,840

size weight and power requirements for

36

00:01:40,149 --> 00:01:38,079

both government and commercial uses